



# RACE SERIES

***PERFORMANCE ENGINE BEARINGS***



# ***BMW***

## ***APPLICATION GUIDE***



# ***OUR WORLD IN MOTORSPORT***



**RACE  
SERIES**

PERFORMANCE ENGINE BEARINGS



***IF YOU PLACE  
DEMANDS ON  
YOUR ENGINE...***

***DEMAND  
THE  
BEST.***

ACL has a proud and rich history in motorsport – it's in our DNA. The racetrack, in all its forms, remains the ultimate proving ground. In the heat of competition, proven technology rises to the challenge.

Today's ACL RACE Series performance engine bearing range carries a strong motorsport pedigree, tracing its roots back to the 1960's with the manufacture of engine bearings for the world-conquering Brabham Formula 1 team.

Decades of experience in the Australian Supercars Championship and numerous other racing categories have shaped the development of the current ACL RACE Series technology platform. It's a unique blend of design, metallurgy, engineering, and precision quality control – delivering the performance and reliability engine builders demand.

Whatever your application, we've got you covered. If you're looking for the best – demand the best.

***NO RISK  
NO COMPROMISE  
TOTAL PERFORMANCE***



PERFORMANCE ENGINE BEARINGS

# ***YOUR #1 BMW SOLUTION***

BMW engines have earned a legendary reputation for smooth power delivery, engineering precision, and racing pedigree. From the high-revving S65 and twin-turbocharged S63 V8s to the classic M20 inline-sixes, BMW's engine lineage is built on innovation and performance. Modern powerplants like the turbocharged N54, N55, and B58 continue this legacy, while engines like the S54 and S55 are revered for their naturally aspirated and high-revving characteristics.

Renowned for their balance, responsiveness, and tuning potential, these engines have become favorites in factory performance cars and engine

swap projects alike. Whether in drift, circuit, or street builds, BMW powertrains are celebrated globally for their capabilities.

ACL offers a dedicated range of RACE Series performance engine bearings to suit BMW's most iconic engine platforms including the S63, N54, S54, B58, M50, and more. Whether you're building a street sleeper or engineering a race-winning setup, ACL RACE Series delivers the high-performance bearing solutions you need to push your BMW to the limit.



PERFORMANCE ENGINE BEARINGS

# BEARING SET NUMBERS

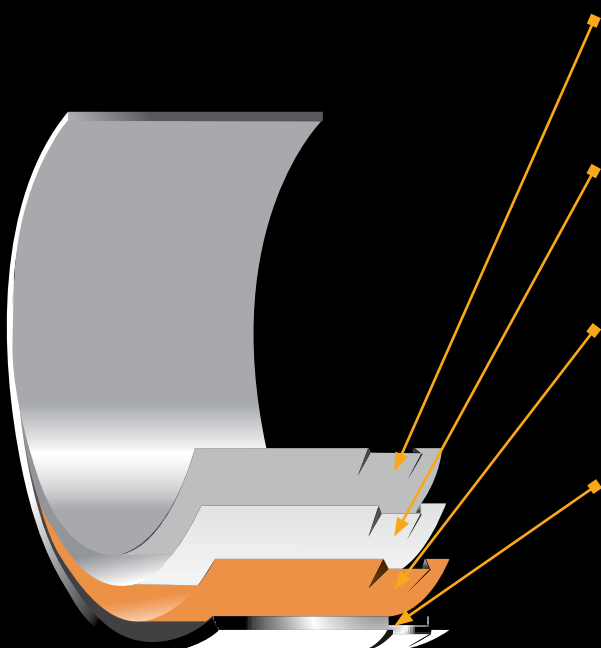
ACL Race Series performance engine bearings are identified from the standard range by the following suffixes.

<b>Set Number</b>	<b>Part Description</b>
<b>H</b>	ACL Race Series
<b>HX</b>	ACL Race Series with 0.025mm (.001") extra clearance.
<b>HC</b>	ACL Race Series, Calico Coated*.
<b>HXC</b>	ACL Race Series with 0.025mm (.001") extra clearance, Calico Coated*.

## BEARING MATERIAL ENHANCEMENTS

A blend of characteristics to provide high strength and excellent seizure resistance.

No flash plating is applied to further improve bearing retention and maximize heat transfer.



<b>LAYER</b>	<b>ALLOY</b>
<b>OVERLAY</b>	Lead - Tin - Copper
Thickness (Typical) 0.013* - 0.018mm / 0.0005" - 0.0007"	
*Connecting Rod Bearings Only - Reduced for increased fatigue resistance	
<b>Seizure Resistant - Low friction and deformable</b>	
<b>BARRIER</b>	<b>NICKEL</b>
Thickness (Typical) 0.001mm / 0.00004"	
<b>Separation Layer</b>	
<b>LINING</b>	<b>COPPER - LEAD - TIN</b>
Thickness (Typical) 0.3mm / 0.012"	
<b>Fatigue Strength - Strong yet deformable</b>	
<b>STEEL</b>	<b>SAE1010</b> (High tensile)
Thickness (Typical) Remainder	
<b>High Strength - Supports bearing lining</b>	

## ***SELECT FITTING OF ACL RACE SERIES PERFORMANCE ENGINE BEARINGS***

It is common practice to adjust oil clearances by mixing bearings of adjacent grades i.e. HX-STD with H-STD or H-STD with H-001 or H-0.025, to obtain desired oil clearance. Using the HX-STD with H-STD will give .0005" (0.013mm) additional clearance than using two H-STD shells, and similarly using H-STD and H-001 will reduce clearance .0005" (0.013mm). The table below demonstrates this in more detail.

Bearing shells with a wall size difference of .0005" (0.013 mm) or less can be assembled on one journal. The thicker wall size bearing is fitted to the most heavily loaded position, i.e., the upper half of the conrod shell and the lower half or cap position of the main bearing.

Selecting Bearings for the Optimized Fit (For “STD” Sized Crankshaft)					
Bearing Size	Effects on Clearance				
	Per Bearing	Bearing Combinations			
		Matched Pairs		Mixed Pairs	
H-001 / H-.025	-.0005” / -0.0125mm	H-.025 / H-001	-0.0250mm / -.001”		
		H-.025 / H-001		H-.025 / H-001	-0.0125mm / -.0005”
H-STD	0.0	H-STD	0.0	H-STD	
		H-STD		H-STD	+0.0125mm / +.0005”
HX-STD	+.0005” / +0.0125mm	HX-STD	+0.0250mm / +.001”	HX-STD	
		HX-STD			







PERFORMANCE ENGINE BEARINGS

# BMW RANGE

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>N13B16A 1598cc Inline 4 DOHC 4v Turbo</b>					<b>2011 - 2016</b>	<b>4 - 77.00 x 85.80mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B7787H</b>								
	Std, .025, .25		7787H	IH	F781	44.975 / 44.991	47.970 / 48.000	1.498	19.70
	<b>4B7787HX</b>								
	Std		7787HX	IH	F781	44.975 / 44.991	47.970 / 48.000	1.485	19.70
	<b>MAIN</b>								
	<b>5M7788H</b>								
	Std, .025, .25	1,2,3,4,5	7788H	U/L	F780	44.981 / 45.000	48.705	1.825	17.90
	<b>5M7788HX</b>								
	Std	1,2,3,4,5	7788HX	U/L	F780	44.981 / 45.000	48.705	1.812	17.90

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>N12B16 1598cc Inline4 DOHC 4v (Mini)</b>					<b>2006 - 2010</b>	<b>4 - 77.00 x 85.80mm</b>		
<b>B</b>	<b>N14B16 1598cc Inline4 DOHC 4v Turbo (Mini)</b>					<b>2006 - 2013</b>	<b>4 - 77.00 x 85.80mm</b>		
<b>C</b>	<b>N16B16 1598cc Inline4 DOHC 4v (Mini)</b>					<b>2011 - 2013</b>	<b>4 - 77.00 x 85.80mm</b>		
<b>D</b>	<b>N18B16 1598cc Inline4 DOHC 4v Turbo (Mini)</b>					<b>2011 - 2013</b>	<b>4 - 77.00 x 85.80mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B7787H</b>								
	Std, .025, .25		7787H	IH	F781	44.975 / 44.991	47.970 / 48.000	1.498	19.70
	<b>4B7787HX</b>								
	Std		7787HX	IH	F781	44.975 / 44.991	47.970 / 48.000	1.485	19.70
	<b>MAIN</b>								
	<b>5M7788H</b>								
	Std, .025, .25	1,2,3,4,5	7788H	U/L	F780	44.981 / 45.000	48.705	1.825	17.90
	<b>5M7788HX</b>								
	Std	1,2,3,4,5	7788HX	U/L	F780	44.981 / 45.000	48.705	1.812	17.90



PERFORMANCE ENGINE BEARINGS



	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S14/7 1990cc Inline 4 DOHC 4v</b>					<b>1988 - 1991</b>	<b>4 - 93.40 x 72.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B1489H</b>								
	Std, .025, .25		1489H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.493	16.00
	<b>4B1489HX</b>								
	Std		1489HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.480	16.00

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S14B20 1990cc Inline 4 DOHC 4v</b>					<b>1987 - 1990</b>	<b>4 - 93.40 x 72.60mm</b>		
<b>B</b>	<b>S14B23 2302cc Inline 4 DOHC 4v</b>					<b>1986 - 1990</b>	<b>4 - 93.40 x 84.00mm</b>		
<b>C</b>	<b>S14B25 2467cc Inline 4 DOHC 4v</b>					<b>1989 - 1990</b>	<b>4 - 95.00 x 87.00mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B1568H</b>								
	Std, .025, .25		1568H	IH	F781	47.975 / 47.991	52.000 / 52.015	1.993	20.00
	<b>4B1568HX</b>								
	Std		1568HX	IH	F781	47.975 / 47.991	52.000 / 52.015	1.980	20.00



	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>M20B20 1991cc Inline 6 SOHC 2v</b>					<b>1977 - 1993</b>	<b>6 - 80.00 x 66.00mm</b>		
<b>B</b>	<b>M20B23 2315cc Inline 6 SOHC 2v</b>					<b>1978 - 1986</b>	<b>6 - 80.00 x 76.80mm</b>		
<b>C</b>	<b>M20B25 2494cc Inline 6 SOHC 2v</b>					<b>1983 - 1993</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>D</b>	<b>M20B27 2693cc Inline 6 SOHC 2v</b>					<b>1981 - 1988</b>	<b>6 - 84.00 x 81.00mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1490H</b>								
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
	<b>6B1490HX</b>								
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
	<b>MAIN</b>								
	<b>7M1539H (Suits until 03/1988) Full Groove Set</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	IH	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	IH	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1539HX (Suits until 03/1988) Full Groove Set</b>								
	Std	1,2,3,4,5,7	1538HX	IH	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	IH	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94
	<b>7M1532H (Suits from 03/1988)</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX (Suits from 03/1988)</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>N20B20 1997cc Inline 4 DOHC 4v Turbo</b>					<b>2009 on</b>	<b>4 - 84.00 x 90.10mm</b>		
<b>B</b>	<b>N26B20 1997cc Inline 4 DOHC 4v Turbo</b>					<b>2011 on</b>	<b>4 - 84.00 x 90.10mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B1584H</b>								
	Std, .025, .25, .50		1584H	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
	<b>4B1584HX</b>								
	Std		1584HX	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55



PERFORMANCE ENGINE BEARINGS

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
A	M21D24 W 2443cc Inline 6 SOHC 2v Diesel					1985 - 1991	6 - 80.00 x 81.00mm		
B	M21D24 WA 2443cc Inline 6 SOHC 2v Turbo Diesel					1983 - 1995	6 - 80.00 x 81.00mm		
C	M51D25 2498cc Inline 6 SOHC 2v Turbo Diesel					1991 - 2003	6 - 80.00 x 80.00mm		
D	M51D25 2498cc Inline 6 SOHC 2v Turbo Diesel (Int)					1991 - 2004	6 - 80.00 x 80.00mm		
D	M57D25 2497cc Inline 6 DOHC 4v Turbo Diesel					2000 - 2004	6 - 80.00 x 82.00mm		
D	M57D30 2926cc Inline 6 DOHC 4v Turbo Diesel					1998 - 2005	6 - 84.00 x 88.00mm		
D	M57N 306 D2 2993cc Inline 6 DOHC 4v Turbo Diesel					2002 on	6 - 84.00 x 90.00mm		
D	M57N 306 D4 2993cc Inline 6 DOHC 4v Turbo Diesel					2003 on	6 - 84.00 x 90.00mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
<b>MAIN</b>									
<b>7M1532H (Suits from 03/1988)</b>									
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
<b>7M1532HX (Suits from 03/1988)</b>									
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
A	M42B18 1796cc Inline 4 DOHC 4v					1989 - 1999	4 - 84.00 x 81.00mm		
B	M43B16 1596cc Inline 4 SOHC 2v					1992 - 1999	4 - 84.00 x 72.00mm		
C	M43B18 1796cc Inline 4 SOHC 2v					1988 - 1999	4 - 84.00 x 81.00mm		
D	M43B19 (TU) 1895cc Inline 4 SOHC 2v					1989 - 1999	4 - 85.00 x 83.50mm		
E	M44B19 1895cc Inline 4 DOHC 4v					1990 - 2004	4 - 85.00 x 83.50mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
<b>CONROD</b>									
<b>4B1490H</b>									
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
<b>4B1490HX</b>									
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
<b>MAIN</b>									
<b>5M1538H</b>									
	Std, .025, .25, .50	1,2,4,5	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		3	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
<b>5M1538HX</b>									
	Std	1,2,4,5	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		3	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94





	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>B48 A20 1998cc Inline 4 DOHC 4v Turbo (Mini)</b>					<b>2013 on</b>	<b>4 - 82.00 x 94.60mm</b>		
<b>B</b>	<b>B48 B20 1998cc Inline 4 DOHC 4v Turbo</b>					<b>2015 on</b>	<b>4 - 82.00 x 94.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B1510H</b>								
	Std, .025, .25		1510H	U/L	F781	49.975 / 49.992	53.600 / 53.619	1.793	19.55
	<b>4B1510HX</b>								
	Std		1510HX	U/L	F781	49.975 / 49.992	53.600 / 53.619	1.780	19.55

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>M50B20 1991cc Inline 6 DOHC 4v</b>					<b>1989 - 1999</b>	<b>6 - 80.00 x 66.00mm</b>		
<b>B</b>	<b>M50B20TU 1991cc Inline 6 DOHC 4v</b>					<b>1992 - 1999</b>	<b>6 - 80.00 x 66.00mm</b>		
<b>C</b>	<b>M50B25 2494cc Inline 6 DOHC 4v</b>					<b>1988 - 1999</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>D</b>	<b>M50B25TU 2494cc Inline 6 DOHC 4v</b>					<b>1989 - 1999</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>E</b>	<b>M52B20 1991cc Inline 6 DOHC 4v</b>					<b>1990 - 2004</b>	<b>6 - 80.00 x 66.00mm</b>		
<b>F</b>	<b>M52B20TU 1991cc Inline 6 DOHC 4v</b>					<b>1998 - 2001</b>	<b>6 - 80.00 x 66.00mm</b>		
<b>G</b>	<b>M52B25 2494cc Inline 6 DOHC 4v</b>					<b>1989 - 2000</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>H</b>	<b>M52B25TU 2494cc Inline 6 DOHC 4v</b>					<b>1995 - 2000</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>I</b>	<b>M52B28 2793cc Inline 6 DOHC 4v</b>					<b>1995 - 2001</b>	<b>6 - 84.00 x 84.00mm</b>		
<b>J</b>	<b>M52B28TU 2793cc Inline 6 DOHC 4v</b>					<b>1995 - 2001</b>	<b>6 - 84.00 x 84.00mm</b>		
<b>K</b>	<b>M54B22 2171cc Inline 6 DOHC 4v</b>					<b>2000 - 2010</b>	<b>6 - 80.00 x 72.00mm</b>		
<b>L</b>	<b>M54B25 2494cc Inline 6 DOHC 4v</b>					<b>2000 - 2010</b>	<b>6 - 84.00 x 75.00mm</b>		
<b>M</b>	<b>M54B30 2979cc Inline 6 DOHC 4v</b>					<b>2000 - 2010</b>	<b>6 - 84.00 x 89.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1490H</b>								
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
	<b>6B1490HX</b>								
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
	<b>MAIN</b>								
	<b>7M1532H</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94



PERFORMANCE ENGINE BEARINGS

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S50B30 2990cc Inline 6 DOHC 4v</b>					<b>1992 - 1996</b>	<b>6 - 86.00 x 85.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1515H</b>								
	Std, .025, .25		1515H	IH	F781	49.975 / 49.991	53.000 / 53.015	1.493	18.00
	<b>6B1515HX</b>								
	Std		1515HX	IH	F781	49.975 / 49.991	53.000 / 53.015	1.480	18.00
	<b>MAIN</b>								
	<b>7M1532H</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94
	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S50B32 3152cc Inline 6 DOHC 4v</b>					<b>1995 - 2002</b>	<b>6 - 87.00 x 91.00mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1497H</b>								
	Std, .025, .25		1497H	IH	F781	48.975 / 48.991	53.000 / 53.015	1.993	18.00
	<b>6B1497HX</b>								
	Std		1497HX	IH	F781	48.975 / 48.991	53.000 / 53.015	1.980	18.00
	<b>MAIN</b>								
	<b>7M1532H</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94
	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S52B32 3201cc Inline 6 DOHC 4v</b>					<b>1996 - 2000</b>	<b>6 - 85.40 x 89.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>MAIN</b>								
	<b>7M1532H</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
A	N52B25 2497cc Inline6 DOHC 4v					2005 - 2011	6 - 84.00 x 89.60mm		
B	N52B25A 2497cc Inline6 DOHC 4v					2005 - 2011	6 - 84.00 x 89.60mm		
C	N52B25C 2497cc Inline6 DOHC 4v					2005 - 2011	6 - 84.00 x 89.60mm		
A	N52B30 2996cc Inline6 DOHC 4v					2004 - 2011	6 - 84.00 x 89.60mm		
A	N52B30A 2996cc Inline6 DOHC 4v					2004 - 2011	6 - 84.00 x 89.60mm		
A	N52NB25A 2497cc Inline6 DOHC 4v					2006 - 2007	6 - 84.00 x 89.60mm		
A	N52NB30A 2996cc Inline6 DOHC 4v					2006 - 2007	6 - 84.00 x 89.60mm		
A	N52NB30B 2996cc Inline6 DOHC 4v					2007 on	6 - 84.00 x 89.60mm		
A	N53B25A 2497cc Inline6 DOHC 4v					2007 - 2010	6 - 84.00 x 89.60mm		
A	N53B30 2996cc Inline6 DOHC 4v					2007 - 2011	6 - 84.00 x 89.60mm		
A	N53B30A 2996cc Inline6 DOHC 4v					2007 on	6 - 84.00 x 89.60mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1395H</b>								
	Std, .025, .25, .50		1584H	L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
	<b>6B1395HX</b>								
	Std		1584HX	L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55
	<b>MAIN</b>								
	<b>7M1397H</b>								
	Std, .025, .25, .50	1	1397H	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.508	19.85
		2,3,4,5,6,7	1398H	L	F780	55.961 / 55.980	61.000 / 61.019	2.508	18.85
		2,3,5,6,7	1398H	U	F780	55.961 / 55.980	61.000 / 61.019	2.508	18.85
		4	1399H(F)	U	F780	55.961 / 55.980	61.000 / 61.019	2.508	24.01
	<b>7M1397HX</b>								
	Std	1	1397HX	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.495	19.85
		2,3,4,5,6,7	1398HX	L	F780	55.961 / 55.980	61.000 / 61.019	2.495	18.85
		2,3,5,6,7	1398HX	U	F780	55.961 / 55.980	61.000 / 61.019	2.495	18.85
		4	1399HX(F)	U	F780	55.961 / 55.980	61.000 / 61.019	2.495	24.01





	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>N54B30 2979cc Inline 6 DOHC 4v Twin Turbo</b>					<b>2006 - 2015</b>	<b>6 - 84.00 x 89.60mm</b>		
<b>B</b>	<b>N55B30 2979cc Inline 6 DOHC 4v Turbo</b>					<b>2009 on</b>	<b>6 - 84.00 x 89.60mm</b>		
<b>C</b>	<b>S55B30 2979cc Inline 6 DOHC 4v Twin Turbo</b>					<b>2013 on</b>	<b>6 - 84.00 x 89.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
<b>CONROD</b>									
<b>6B1584H</b>									
	Std, .025, .25, .50		1584H	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
<b>6B1584HX</b>									
	Std		1584HX	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55
<b>MAIN</b>									
<b>7M1397H</b>									
	Std, .025, .25, .50	1	1397H	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.508	19.85
		2,3,4,5,6,7	1398H	L	F780	55.961 / 55.980	61.000 / 61.019	2.508	18.85
		2,3,5,6,7	1398H	U	F780	55.961 / 55.980	61.000 / 61.019	2.508	18.85
		4	1399H(F)	U	F780	55.961 / 55.980	61.000 / 61.019	2.508	24.01
<b>7M1397HX</b>									
	Std	1	1397HX	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.495	19.85
		2,3,4,5,6,7	1398HX	L	F780	55.961 / 55.980	61.000 / 61.019	2.495	18.85
		2,3,5,6,7	1398HX	U	F780	55.961 / 55.980	61.000 / 61.019	2.495	18.85
		4	1399HX(F)	U	F780	55.961 / 55.980	61.000 / 61.019	2.495	24.01



	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S54B32 3246cc Inline 6 DOHC 4v</b>					<b>2001 - 2006</b>	<b>6 - 87.00 x 91.00mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1569H</b>								
	Std, .025, .25		1569H	IH	F781	48.975 / 48.991	53.000 / 53.015	1.993	16.00
	<b>6B1569HX</b>								
	Std		1569HX	IH	F781	48.975 / 48.991	53.000 / 53.015	1.980	16.00
	<b>MAIN</b>								
	<b>7M1532H</b>								
	Std, .025, .25, .50	1,2,3,4,5,7	1538H	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	20.00
		6	1539H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.488	24.94
	<b>7M1532HX</b>								
	Std	1,2,3,4,5,7	1538HX	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	20.00
		6	1539HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.475	24.94

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>B58 B30 2998cc Inline 6 DOHC 4v Twin Turbo</b>					<b>2015 on</b>	<b>6 - 82.00 x 94.60mm</b>		
<b>B</b>	<b>S58 B30 2998cc Inline 6 DOHC 4v Twin Turbo</b>					<b>2019 on</b>	<b>6 - 82.00 x 94.60mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>6B1510H</b>								
	Std, .025, .25		1510H	IH	F781	49.975 / 49.992	53.600 / 53.619	1.793	19.55
	<b>6B1510HX</b>								
	Std		1510HX	IH	F781	49.975 / 49.992	53.600 / 53.619	1.780	19.55
	<b>MAIN</b>								
	<b>7M1512H</b>								
	Std, .025, .25, .50	1,2,3,5,6,7	1512H	U/L	F780	54.961 / 54.980	60.000 / 60.019	2.502	18.85
		4	1513H(F)	U/L	F780	54.961 / 54.980	60.000 / 60.019	2.502	24.95
	<b>7M1512HX</b>								
	Std	1,2,3,5,6,7	1512HX	U/L	F780	54.961 / 54.980	60.000 / 60.019	2.489	18.85
		4	1513HX(F)	U/L	F780	54.961 / 54.980	60.000 / 60.019	2.489	24.95

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S62B50 4941cc V8 DOHC 4v</b>					<b>1998 - 2003</b>	<b>8 - 94.00 x 89.00mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>8B1591H</b>								
	Std, .025, .25		1591H	IH	F781	48.975 / 48.991	53.000 / 53.013	1.993	17.00
	<b>8B1591HX</b>								
	Std		1591HX	IH	F781	48.975 / 48.991	53.000 / 53.013	1.98	17.00

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S63B44 4395cc V8 DOHC 4v Twin Turbo</b>					<b>2009 on</b>	<b>8 - 89.00 x 88.30mm</b>		
<b>B</b>	<b>N63B44 4395cc V8 DOHC 4v Twin Turbo</b>					<b>2008 on</b>	<b>8 - 89.00 x 88.30mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>8B1578H (suits from 3/2011 on)</b>								
	Std, .025, .25		1578H	IH	F781	53.971 / 53.990	57.600 / 57.616	1.794	15.00
	<b>8B1578HX (suits from 3/2011 on)</b>								
	Std		1578HX	IH	F781	53.971 / 53.990	57.600 / 57.616	1.781	15.00
	<b>MAIN</b>								
	<b>5M1573H</b>								
	Std, .025, .25, .50	1,2,4,5	1573H	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.500	22.25
		3	1574H(F)	U/L	F780	64.971 / 64.990	70.000 / 70.019	2.500	27.95
	<b>5M1573HX</b>								
	Std	1,2,4,5	1573HX	U/L	F780	64.961 / 64.980	70.000 / 70.019	2.487	22.25
		3	1574HX(F)	U/L	F780	64.971 / 64.990	70.000 / 70.019	2.487	27.95

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S65B40 3999cc V8 DOHC 4v</b>					<b>2007 - 2013</b>	<b>8 - 92.00 x 75.20mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>8B1580H</b>								
	Std, .025, .25, .50		1580H	IH	F781	51.975 / 51.991	56.000 / 56.013	1.998	15.90
	<b>8B1580HX</b>								
	Std		1580HX	IH	F781	51.975 / 51.991	56.000 / 56.013	1.985	15.90
	<b>MAIN</b>								
	<b>5M1581H</b>								
	Std, .025, .25, .50	1,2,3,4	1581H	U/L	F780	59.961 / 59.980	65.000 / 65.019	2.500	22.25
		5	1582H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.500	27.95
	<b>5M1581HX</b>								
	Std	1,2,3,4	1581HX	U/L	F780	59.961 / 59.980	65.000 / 65.019	2.487	22.25
		5	1582HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.487	27.95





	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>S85B50 4999cc V10 DOHC 4v</b>					<b>2005 - 2010</b>	<b>10 - 92.00 x 75.20mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>10B1580H</b>								
	Std, .025, .25, .50		1580H	IH	F781	51.975 / 51.991	56.000 / 56.013	1.998	15.90
	<b>10B1580HX</b>								
	Std		1580HX	IH	F781	51.975 / 51.991	56.000 / 56.013	1.985	15.90
	<b>MAIN</b>								
	<b>6M1581H</b>								
	Std, .025, .25, .50	1,2,3,4,5	1581H	U/L	F780	59.961 / 59.980	65.000 / 65.019	2.500	22.25
		6	1582H(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.500	27.95
	<b>6M1581HX</b>								
	Std	1,2,3,4,5	1581HX	U/L	F780	59.961 / 59.980	65.000 / 65.019	2.487	22.25
		6	1582HX(F)	U/L	F780	59.971 / 59.990	65.000 / 65.019	2.487	27.95

	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>W10B16 1598cc Inline4 SOHC 4v (Mini)</b>					<b>2001 - 2009</b>	<b>4 - 77.00 x 85.80mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B2903H</b>								
	Std, .025, .25		2903H	IH	F781	43.992 / 44.008	47.000 / 47.020	1.489	16.25
	<b>4B2903HX</b>								
	Std		2903HX	IH	F781	43.992 / 44.008	47.000 / 47.020	1.476	16.25


	<b>Engine</b>					<b>Year</b>	<b>Cyl (Bore &amp; Stroke)</b>		
<b>A</b>	<b>W11B16 1598cc Inline4 SOHC 4v Supercharged (Mini)</b>					<b>2002 - 2009</b>	<b>4 - 77.00 x 85.80mm</b>		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	<b>CONROD</b>								
	<b>4B2902H</b>								
	Std, .025, .25		2902H	IH	F781	45.992 / 46.008	49.000 / 49.020	1.491	17.25
	<b>4B2902HX</b>								
	Std		2902HX	IH	F781	45.992 / 46.008	49.000 / 49.020	1.478	17.25




PERFORMANCE ENGINE BEARINGS

# CONROD BEARING SET

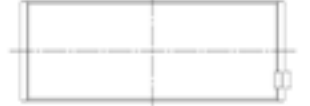
Part No.	Shell Part No.
10B1580H / 8B1580H	1580H



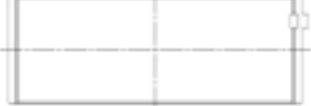
Part No.	Shell Part No.
4B1489H	1489H



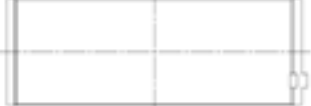
Part No.	Shell Part No.
4B1490H	1490H




Part No.	Shell Part No.
4B1510H / 6B1510H	1510H-L



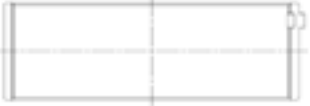
Part No.	Shell Part No.
4B1510H / 6B1510H	1510H-U



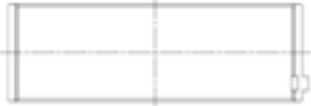
Part No.	Shell Part No.
4B1568H	1568H




Part No.	Shell Part No.
4B1584H	1584H-L




Part No.	Shell Part No.
4B1584H	1584H-U



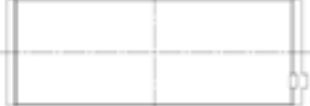
Part No.	Shell Part No.
4B7787H	7787H



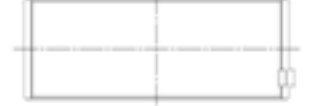
Part No.	Shell Part No.
4B2902H	2902H




Part No.	Shell Part No.
4B2903H	2903H




Part No.	Shell Part No.
6B1490H	1490H



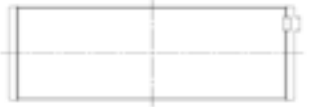
Part No.	Shell Part No.
6B1497H	1497H




Part No.	Shell Part No.
6B1515H	1515H



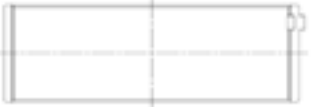
Part No.	Shell Part No.
6B1395H	1584H-L



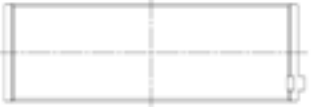
Part No.	Shell Part No.
6B1569H	1569H




Part No.	Shell Part No.
6B1584H	1584H-L



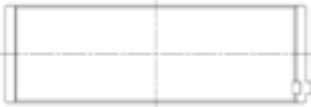
Part No.	Shell Part No.
6B1584H	1584H-U



Part No.	Shell Part No.
8B1578H	1578H



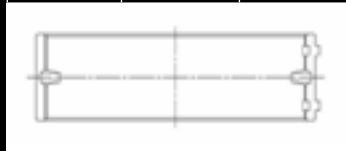
Part No.	Shell Part No.
8B1591H	1591H




PERFORMANCE ENGINE BEARINGS

# MAIN BEARING SET

Part No.	Shell Part No.	Position
5M1538H	1538H-L	1,2,4,5



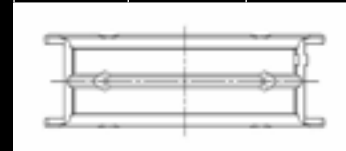
Part No.	Shell Part No.	Position
5M1538H	1538H-U	1,2,4,5



Part No.	Shell Part No.	Position
5M1538H	1539H-L	3



Part No.	Shell Part No.	Position
5M1538H	1539H-U	3



Part No.	Shell Part No.	Position
5M1573H	1573H-L	1,2,4,5



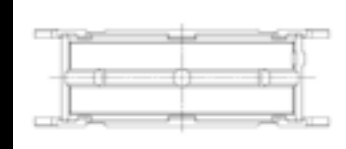
Part No.	Shell Part No.	Position
5M1573H	1573H-U	1,2,4,5



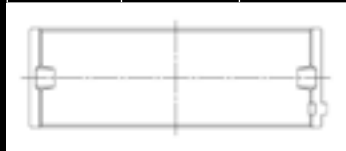
Part No.	Shell Part No.	Position
5M1573H	1574H-L	3



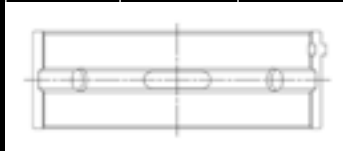
Part No.	Shell Part No.	Position
5M1573H	1574H-U	3



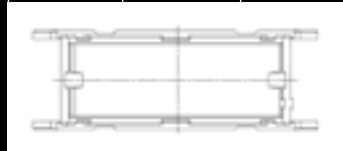
Part No.	Shell Part No.	Position
5M1581H	1581H-L	1,2,3,4



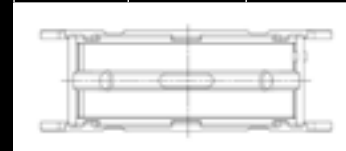
Part No.	Shell Part No.	Position
5M1581H	1581H-U	1,2,3,4



Part No.	Shell Part No.	Position
5M1581H	1582H-L	5



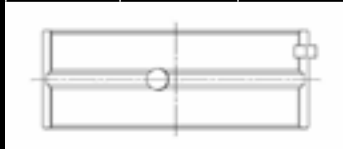
Part No.	Shell Part No.	Position
5M1581H	1582H-U	5



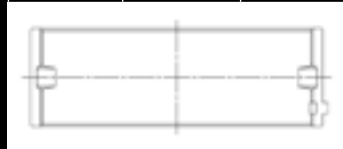
Part No.	Shell Part No.	Position
5M7788H	7788H-L	1,2,3,4,5



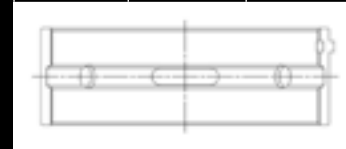
Part No.	Shell Part No.	Position
5M7788H	7788H-U	1,2,3,4,5



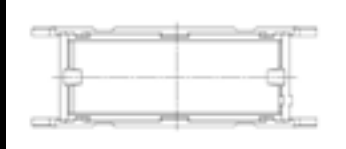
Part No.	Shell Part No.	Position
6M1581H	1581H-L	1,2,3,4,5



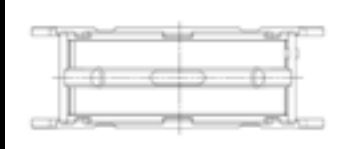
Part No.	Shell Part No.	Position
6M1581H	1581H-U	1,2,3,4,5



Part No.	Shell Part No.	Position
6M1581H	1582H-L	6



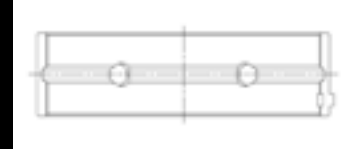
Part No.	Shell Part No.	Position
6M1581H	1582H-U	6



Part No.	Shell Part No.	Position
7M1397H	1397H-L	1



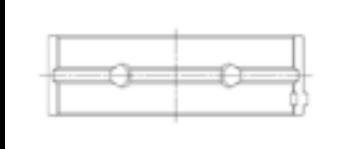
Part No.	Shell Part No.	Position
7M1397H	1397H-U	1



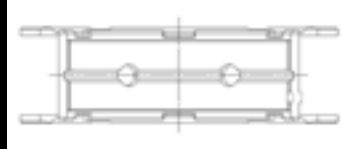
Part No.	Shell Part No.	Position
7M1397H	1398H-L	2,3,4,5,6,7



Part No.	Shell Part No.	Position
7M1397H	1398H-U	2,3,5,6,7



Part No.	Shell Part No.	Position
7M1397H	1399H-U	4



Part No.	Shell Part No.	Position
7M1512H	1512H-L	1,2,3,5,6,7





Part No.	Shell Part No.	Position
7M1512H	1512H-U	1,2,3,5,6,7



Part No.	Shell Part No.	Position
7M1512H	1513H-L	4



Part No.	Shell Part No.	Position
7M1512H	1513H-U	4



Part No.	Shell Part No.	Position
7M1532H	1538H-L	1,2,3,4,5,7



Part No.	Shell Part No.	Position
7M1532H	1538H-U	1,2,3,4,5,7



Part No.	Shell Part No.	Position
7M1532H	1539H-L	6



Part No.	Shell Part No.	Position
7M1532H	1539H-U	6



Part No.	Shell Part No.	Position
7M1539H	1538H-U	1,2,4,5,6,7



Part No.	Shell Part No.	Position
7M1539H	1539H-U	3



PERFORMANCE ENGINE BEARINGS

# NOTES





# Australian Engineering Excellence

**NO RISK | NO COMPROMISE | TOTAL PERFORMANCE**



**YOUR ENGINE BEARING RETAILER IS:**



## ACL Distribution Inc

ACL Distribution Inc  
357 36th Street S.E  
Wyoming, Michigan 49548

(800) 847-5521

[aclus.com](http://aclus.com) | [aclraceseries.com](http://aclraceseries.com)

  ACL Race Series

**BMWAG26**

Copyright - ACL Bearing Company (Australia) Pty Ltd.  
Reproduction in whole or part is prohibited without written approval.

