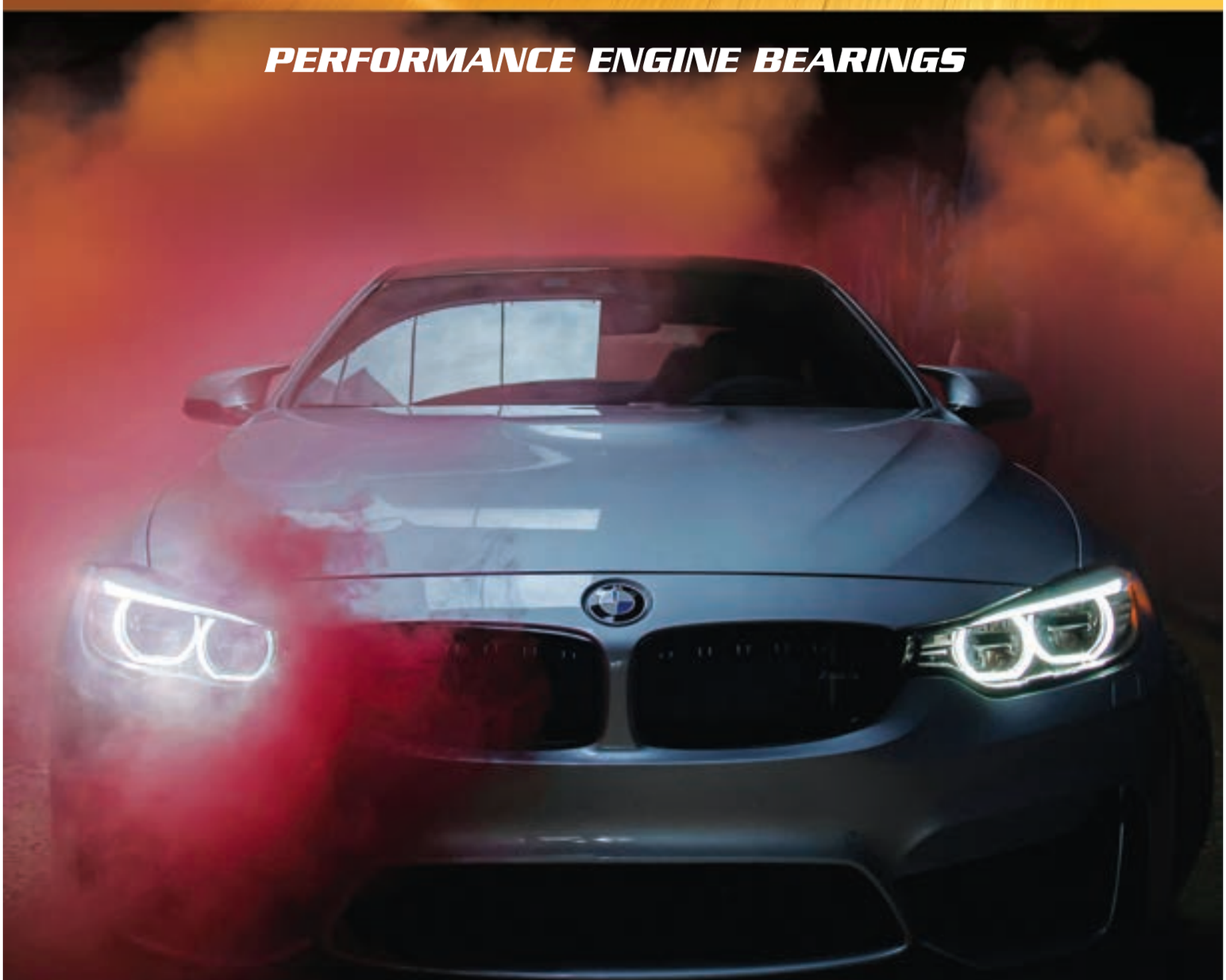
ACL RACE SERIES

PERFORMANCE ENGINE BEARINGS



BMW

APPLICATION GUIDE

OUR WORLD IN MOTORSPORT

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

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 favourites 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.

BEARING SET NUMBERS

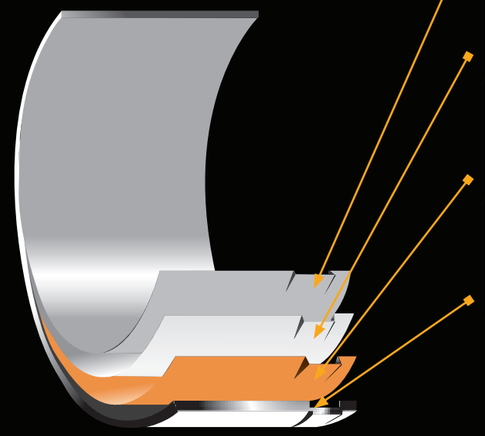
ACL Race Series performance engine bearings are identified from the standard range by the following suffixes.

Set Number	Part Description
H	ACL Race Series
HX	ACL Race Series with 0.025mm (.001") extra clearance.
HC	ACL Race Series, Calico Coated*.
HXC	ACL Race Series with 0.025mm (.001") extra clearance, Calico Coated*.
*Assorted Calico coated sets available upon request.	

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 maximise heat transfer.



LAYER	ALLOY
OVERLAY	Lead - Tin - Copper
Thickness (Typical) 0.013* - 0.018mm / 0.0005" - 0.0007"	
*Connecting Rod Bearings Only - Reduced for increased fatigue resistance	
Seizure Resistant - Low friction and deformable	

BARRIER	NICKEL
Thickness (Typical) 0.001mm / 0.00004"	
Separation Layer	

LINING	COPPER - LEAD - TIN
Thickness (Typical) 0.3mm / 0.012"	
Fatigue Strength - Strong yet deformable	

STEEL	**SAE1010** (High tensile)
Thickness (Typical) Remainder	
High Strength - Supports bearing lining	

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 demostrates 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 Optimised 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			

BMW RANGE

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

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

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

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

	Engine	Year	Cyl (Bore & Stroke)
A	M20B20 1991cc Inline 6 SOHC 2v	1977 - 1993	6 - 80.00 x 66.00mm
B	M20B23 2315cc Inline 6 SOHC 2v	1978 - 1986	6 - 80.00 x 76.80mm
C	M20B25 2494cc Inline 6 SOHC 2v	1983 - 1993	6 - 84.00 x 75.00mm
D	M20B27 2693cc Inline 6 SOHC 2v	1981 - 1988	6 - 84.00 x 81.00mm

	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	6B1490H								
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
	6B1490HX								
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
	MAIN								
	7M1539H (Suits until 03/1988) ***Full Groove Set***								
	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
	7M1539HX (Suits until 03/1988) ***Full Groove Set***								
	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
	7M1532H (Suits from 03/1988)								
	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
	7M1532HX (Suits from 03/1988)								
	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

	Engine	Year	Cyl (Bore & Stroke)
A	N20B20 1997cc Inline 4 DOHC 4v Turbo	2009 on	4 - 84.00 x 90.10mm
B	N26B20 1997cc Inline 4 DOHC 4v Turbo	2011 on	4 - 84.00 x 90.10mm

	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	4B1584H								
	Std, .025, .25, .50		1584H	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
	4B1584HX								
	Std		1584HX	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55

	Engine	Year	Cyl (Bore & Stroke)
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
	MAIN								
	7M1532H (Suits from 03/1988)								
	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
	7M1532HX (Suits from 03/1988)								
	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

	Engine	Year	Cyl (Bore & Stroke)
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
	CONROD								
	4B1490H								
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
	4B1490HX								
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
	MAIN								
	5M1538H								
	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
	5M1538HX								
	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

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

	Engine	Year	Cyl (Bore & Stroke)
A	M50B20 1991cc Inline 6 DOHC 4v	1989 - 1999	6 - 80.00 x 66.00mm
B	M50B20TU 1991cc Inline 6 DOHC 4v	1992 - 1999	6 - 80.00 x 66.00mm
C	M50B25 2494cc Inline 6 DOHC 4v	1988 - 1999	6 - 84.00 x 75.00mm
D	M50B25TU 2494cc Inline 6 DOHC 4v	1989 - 1999	6 - 84.00 x 75.00mm
E	M52B20 1991cc Inline 6 DOHC 4v	1990 - 2004	6 - 80.00 x 66.00mm
F	M52B20TU 1991cc Inline 6 DOHC 4v	1998 - 2001	6 - 80.00 x 66.00mm
G	M52B25 2494cc Inline 6 DOHC 4v	1989 - 2000	6 - 84.00 x 75.00mm
H	M52B25TU 2494cc Inline 6 DOHC 4v	1995 - 2000	6 - 84.00 x 75.00mm
I	M52B28 2793cc Inline 6 DOHC 4v	1995 - 2001	6 - 84.00 x 84.00mm
J	M52B28TU 2793cc Inline 6 DOHC 4v	1995 - 2001	6 - 84.00 x 84.00mm
K	M54B22 2171cc Inline 6 DOHC 4v	2000 - 2010	6 - 80.00 x 72.00mm
L	M54B25 2494cc Inline 6 DOHC 4v	2000 - 2010	6 - 84.00 x 75.00mm
M	M54B30 2979cc Inline 6 DOHC 4v	2000 - 2010	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
	CONROD								
	6B1490H								
	Std, .025, .25, .50		1490H	IH	F781	44.975 / 44.991	48.000 / 48.016	1.490	18.00
	6B1490HX								
	Std		1490HX	IH	F781	44.975 / 44.991	48.000 / 48.016	1.477	18.00
	MAIN								
	7M1532H								
	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
	7M1532HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	S50B30 2990cc Inline 6 DOHC 4v					1992 - 1996	6 - 86.00 x 85.60mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	6B1515H								
	Std, .025, .25		1515H	IH	F781	49.975 / 49.991	53.000 / 53.015	1.493	18.00
	6B1515HX								
	Std		1515HX	IH	F781	49.975 / 49.991	53.000 / 53.015	1.480	18.00
	MAIN								
	7M1532H								
	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
	7M1532HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	S50B32 3152cc Inline 6 DOHC 4v					1995 - 2002	6 - 87.00 x 91.00mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	6B1497H								
	Std, .025, .25		1497H	IH	F781	48.975 / 48.991	53.000 / 53.015	1.993	18.00
	6B1497HX								
	Std		1497HX	IH	F781	48.975 / 48.991	53.000 / 53.015	1.980	18.00
	MAIN								
	7M1532H								
	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
	7M1532HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	S52B32 3201cc Inline 6 DOHC 4v					1996 - 2000	6 - 85.40 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
	MAIN								
	7M1532H								
	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
	7M1532HX								
	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

	Engine	Year	Cyl (Bore & Stroke)
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
	CONROD								
	6B1395H								
	Std, .025, .25, .50		1584H	L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
	6B1395HX								
	Std		1584HX	L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55
	MAIN								
	7M1397H								
	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
	7M1397HX								
	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

	Engine	Year	Cyl (Bore & Stroke)
A	N54B30 2979cc Inline 6 DOHC 4v Twin Turbo	2006 - 2015	6 - 84.00 x 89.60mm
B	N55B30 2979cc Inline 6 DOHC 4v Turbo	2009 on	6 - 84.00 x 89.60mm
C	S55B30 2979cc Inline 6 DOHC 4v Twin Turbo	2013 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
	CONROD								
	6B1584H								
	Std, .025, .25, .50		1584H	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.793	17.55
	6B1584HX								
	Std		1584HX	U/L	F781	49.973 / 49.993	53.600 / 53.616	1.780	17.55
	MAIN								
	7M1397H								
	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
	7M1397HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	S54B32 3246cc Inline 6 DOHC 4v					2001 - 2006	6 - 87.00 x 91.00mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	6B1569H								
	Std, .025, .25		1569H	IH	F781	48.975 / 48.991	53.000 / 53.015	1.993	16.00
	6B1569HX								
	Std		1569HX	IH	F781	48.975 / 48.991	53.000 / 53.015	1.980	16.00
	MAIN								
	7M1532H								
	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
	7M1532HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	B58 B30 2998cc Inline 6 DOHC 4v Twin Turbo					2015 on	6 - 82.00 x 94.60mm		
B	S58 B30 2998cc Inline 6 DOHC 4v Twin Turbo					2019 on	6 - 82.00 x 94.60mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	6B1510H								
	Std, .025, .25		1510H	IH	F781	49.975 / 49.992	53.600 / 53.619	1.793	19.55
	6B1510HX								
	Std		1510HX	IH	F781	49.975 / 49.992	53.600 / 53.619	1.780	19.55
	MAIN								
	7M1512H								
	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
	7M1512HX								
	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

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

	Engine					Year	Cyl (Bore & Stroke)		
A	S63B44 4395cc V8 DOHC 4v Twin Turbo					2009 on	8 - 89.00 x 88.30mm		
B	N63B44 4395cc V8 DOHC 4v Twin Turbo					2008 on	8 - 89.00 x 88.30mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	8B1578H (suits from 3/2011 on)								
	Std, .025, .25		1578H	IH	F781	53.971 / 53.990	57.600 / 57.616	1.794	15.00
	8B1578HX (suits from 3/2011 on)								
	Std		1578HX	IH	F781	53.971 / 53.990	57.600 / 57.616	1.781	15.00
	MAIN								
	5M1573H								
	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
	5M1573HX								
	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

	Engine					Year	Cyl (Bore & Stroke)		
A	S65B40 3999cc V8 DOHC 4v					2007 - 2013	8 - 92.00 x 75.20mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	8B1580H								
	Std, .025, .25, .50		1580H	IH	F781	51.975 / 51.991	56.000 / 56.013	1.998	15.90
	8B1580HX								
	Std		1580HX	IH	F781	51.975 / 51.991	56.000 / 56.013	1.985	15.90
	MAIN								
	5M1581H								
	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
	5M1581HX								
	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

ACL RACE SERIES
PERFORMANCE ENGINE BEARINGS

	Engine					Year	Cyl (Bore & Stroke)		
A	S85B50 4999cc V10 DOHC 4v					2005 - 2010	10 - 92.00 x 75.20mm		
	Set number and sizes	Location	Component Number	Half Types	Material Codes	Standard Shaft Size	Standard Tunnel Size	Max. Wall at Crown	Max. Length
	CONROD								
	10B1580H								
	Std, .025, .25, .50		1580H	IH	F781	51.975 / 51.991	56.000 / 56.013	1.998	15.90
	10B1580HX								
	Std		1580HX	IH	F781	51.975 / 51.991	56.000 / 56.013	1.985	15.90
	MAIN								
	6M1581H								
	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
	6M1581HX								
	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

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

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

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

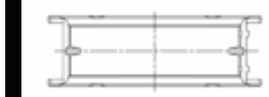
Part No.	Shell Part No.
8B1591H	1591H

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

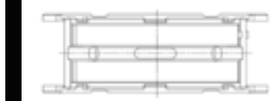
Part No.	Shell Part No.	Position
5M1573H	1574H-U	3

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

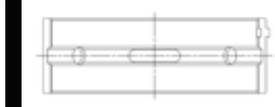


Part No.	Shell Part No.	Position
5M7788H	7788H-L	1,2,3,4,5

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

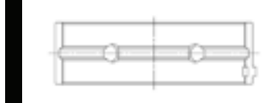
Part No.	Shell Part No.	Position
6M1581H	1582H-U	6

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

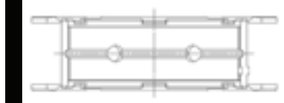
Part No.	Shell Part No.	Position
7M1397H	1397H-U	1

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

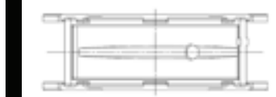


Part No.	Shell Part No.	Position
7M1512H	1512H-L	1,2,3,5,6,7

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

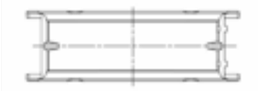
Part No.	Shell Part No.	Position
7M1512H	1513H-U	4



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

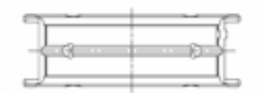
Part No.	Shell Part No.	Position
7M1532H	1539H-L	6



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



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