

New Replacement Parts for CUMMINS®

ISX-QSX-X15 Engine Applications





September 2019



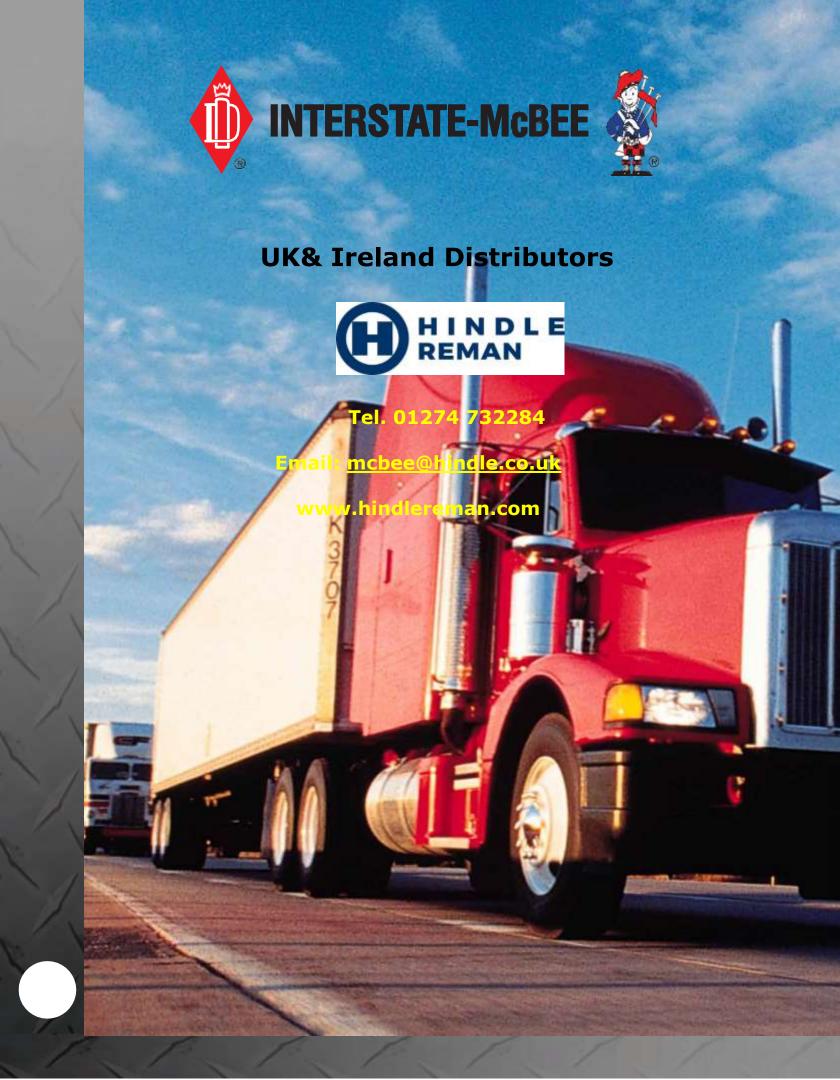




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CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
007	10V 07	150mm	N/A	M-4376174	N 4055504	
927	ISX 07	152mm	N/A	M-4376428	M-4955591	
1 10 1	ICV 07	150mm	N/A	M-4376174	M 4055504	D 4054000
1434	ISX 07	152mm	N/A	M-4376428	M-4955591	R-4954888
1 1 2 7	ICV 070	150mm	N/A	M-4376175	M 4055501	
1437	ISX 870	152mm	N/A	M-5405988	M-4955591	
1732	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
1771	ICV4 / ICV0	150mm	N/A	M-4376171	M 4055500	D 4000004
1771	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4088301
2440	ICV4 / ICV0	150mm	N/A	M-4376171	M 4055500	D 4040000
2440	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4010292
0444	1074 / 1070	150mm	N/A	M-4376171	N 4055500	R-4062567
2441	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	
0440	ICV2 / Ciava atuma	150mm	N/A	M-4376172	N 4055500	R-4062568
2442	2 ISX3 / Signature	152mm	N/A	In Development	M-4955590	
0.400	100 100/0 / 01	150mm	N/A	M-4376172	M 4055500	R-4062568
2483	ISX3 / Signature	152mm	N/A	In Development	M-4955590	
0007	10.74 / 10.70	150mm	N/A	M-4376171	M-4955590	D 4040000
2627	ISX1 / ISX2	152mm	N/A	M-4376429		R-4010292
0000	ICV 400/450	150mm	N/A	M-4376171	N 4055500	D 4040000
2628	ISX 400/450	152mm	N/A	M-4376429	M-4955590	R-4010292
2620	ICVEOD/AZE CTO	150mm	N/A	M-4376171	M 4055500	D 4000004
2629	ISX500/475 ST2	152mm	N/A	M-4376429	M-4955590	R-4088301
2020	ICV2 / Ciamatura	150mm	N/A	M-4376172	M 4055500	D 4000E00
2630	ISX3 / Signature	152mm	N/A	In Development	M-4955590	R-4062568
0004	ICV 4E0	150mm	N/A	M-4376171	M 4055500	D 4040000
2631	ISX 450	152mm	N/A	M-4376429	M-4955590	R-4010292
0000	ICV4 / ICV0	150mm	N/A	M-4376171	M 4055500	D 4000004
2632	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4088301
2622	ICV2 / Cianatura	150mm	N/A	M-4376172	M 4055500	D 4060560
2633	ISX3 / Signature	152mm	N/A	In Development	M-4955590	R-4062568
2722	ICV 07	150mm	N/A	M-4376175	M 4055504	D 4054404
2732	ISX 07	152mm	N/A	M-5405988	M-4955591	R-4954434
2722	ISV 07	150mm	N/A	M-4376174	M 4055504	D 4054000
2733	ISX 07	152mm	N/A	M-4376428	M-4955591	R-4954888

CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
2724	ISX 07	150mm	N/A	M-4376174	M 4055501	D 4000665
2734	15 \ 07	152mm	N/A	M-4376428	M-4955591	R-4088665
2801	ISV2 / Signatura	150mm	N/A	M-4376172	M-4955590	R-4062568
2001	ISX3 / Signature	152mm	N/A	In Development	WI-4955590	K-4002300
2803	ISX1 / ISX2	150mm	N/A	M-4376171	M-4955590	R-4010292
2003	13/1/13/2	152mm	N/A	M-4376429	WI-4955590	K-4010292
2814	ISX1 / ISX2	150mm	N/A	M-4376171	M 4055500	D 4062567
2014	13/1/13/2	152mm	N/A	M-4376429	M-4955590	R-4062567
2016	ICV2 / Cignoture	150mm	N/A	M-4376172	M 4055500	D 4062569
2816	ISX3 / Signature	152mm	N/A	In Development	M-4955590	R-4062568
2825	Industrial / GenSet	150mm	M-4352288	In Development	M-4955590	R-4062569
2834	Signatura 600/565	150mm	N/A	M-4376172	M-4955590	R-4062568
2034	Signature 600/565	152mm	N/A	In Development	WI-4955590	
2835	Signature 600/565	150mm	M-4352288	In Development	M-4955590	R-4062568
2836	ICV2 / Cignoture	150mm	N/A	M-4376172	M-4955590	R-4062568
2030	ISX3 / Signature	152mm	N/A	In Development	WI-4955590	K-4002300
2837	ISX3 / Signature	150mm	N/A	M-4376172	M-4955590	R-4062568
2031	13/3/ Signature	152mm	N/A	In Development	WI-4955590	11-4002300
2900	ICV2 / Cignoture	150mm	N/A	M-4376172	M-4955590	R-4062568
2900	ISX3 / Signature	152mm	N/A	In Development	WI-4955590	K-4002300
2919	ISX 07	150mm	N/A	M-4376174	M-4955591	R-4088665
2919	13 \ 07	152mm	N/A	M-4376428	101-4955591	K-4000003
2933	ISX1 / ISX2	150mm	N/A	M-4376171	M-4955590	R-4088301
2933	13/1/13/2	152mm	N/A	M-4376429	WI-4955590	K-4000301
2934	ISX1 / ISX2	150mm	N/A	M-4376171	M-4955590	R-4088301
2934	13/1 / 13/2	152mm	N/A	M-4376429	WI-4955590	K-4000301
2065	ISV 07	150mm	N/A	M-4376174	M 4055501	D 4000665
2965	ISX 07	152mm	N/A	M-4376428	M-4955591	R-4088665
3087	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
3088	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
3167	ISX 07	150mm	N/A	M-4376174	M-4955591	
J101	ISA UI	152mm	N/A	M-4376428	IVI-480008 I	
3229	ISX 07	150mm	N/A	M-4376175	M-4955591	D_4054424
3229	13/10/	152mm	N/A	M-5405988	IVI-430003 I	R-4954434

CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
2220	ICV 07	150mm	N/A	M-4376174	M 4055501	D 4000665
3320	ISX 07	152mm	N/A	M-4376428	M-4955591	R-4088665
3348	ISX10	150mm	N/A	M-5473065	M-2881766	
3340	13/10	152mm	N/A	M-4376427	101-2001700	
3349	ISX10	150mm	N/A	M-5473065	M-2881766	
3349	15/10	152mm	N/A	M-5473066	IVI-200 I / 00	
0050	10.74.0	150mm	N/A	M-5473069	M 0004700	
3350	ISX10	152mm	N/A	M-5473070	M-2881766	
0050	10.74.0	150mm	N/A	M-5473069	M 0004700	
3356	ISX10	152mm	N/A	M-5473070	M-2881766	
2276	ICV40	150mm	N/A	M-5473065	M 0004766	
3376	ISX10	152mm	N/A	M-4376427	M-2881766	
2450	ICV 07	150mm	N/A	M-4376174	M 4055501	
3458	ISX 07	152mm	N/A	M-4376428	M-4955591	
2450	ICV 07	150mm	N/A	M-4376175	M 4055504	
3459	ISX 07	152mm	N/A	M-5405988	M-4955591	
3490	ISX10	150mm	N/A	M-5473065	M-2881766	
3490	13/10	152mm	N/A	M-5473066	IVI-200 I 7 00	
3491	ISX10	150mm	N/A	M-5473065	M 2001766	
3491	13/10	152mm	N/A	M-5473066	M-2881766	
2566	ISX10	150mm	N/A	M-5473069	M-2881766	
3566	13/10	152mm	N/A	M-5473070	IVI-200 I / 00	
3567	ISX10	150mm	N/A	M-5473074	M-2881766	
3307	13/10	152mm	N/A	M-5473075	101-2001700	
3606	ISX10	150mm	N/A	M-5473069	M-2881766	
3000	13/10	152mm	N/A	M-5473070	101-2001700	
3657	ISX10	150mm	N/A	M-5473074	M-2881766	
3037	15/10	152mm	N/A	M-5473075	101-2001700	
3687	ISX10	150mm	N/A	M-5473065	M-2881766	
5001	15/(10	152mm	N/A	M-5473066	WI 2001700	
3688	ISX10	150mm	N/A	M-5473065	M-2881766	
5000	10/10	152mm	N/A	M-5473066	WI-2001700	
3719	ISX10	150mm	N/A	M-5473074	M-2881766	
3113	IOXIO	152mm	N/A	M-5473075	WI-2001700	

CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
0704	IOV40	150mm	N/A	M-5473074	NA 0004700	
3724	ISX10	152mm	N/A	M-5473075	M-2881766	
0705	10.740	150mm	N/A	M-5473069	M 0004700	
3765	ISX10	152mm	N/A	M-5473070	M-2881766	
0700	IOV40	150mm	N/A	M-5473069	M 0004700	
3766	ISX10	152mm	N/A	M-5473070	M-2881766	
2775	ICV 07	150mm	N/A	M-4376175	M 4055504	
3775	ISX 07	152mm	N/A	M-5405988	M-4955591	
2704	IOV40	150mm	N/A	M-5473069	M 0004700	
3794	ISX10	152mm	N/A	M-5473070	M-2881766	
2707	10.740	150mm	N/A	M-5473069	M 0004700	
3797	ISX10	152mm	N/A	M-5473070	M-2881766	
0007	10)/40	150mm	N/A	M-5473074	M 0004700	
3937	ISX10	152mm	N/A	M-5473075	M-2881766	
0000	10)/40	150mm	N/A	M-5473069	M-2881766	
3938	ISX10	152mm	N/A	M-5405987		
2020	10.740	150mm	N/A	M-5473069	M-2881766	
3939	ISX10	152mm	N/A	M-5473070	IVI-288 I 766	
4262	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
4.40E	ICV40	150mm	N/A	M-5473069	M 0004766	
4495	ISX10	152mm	N/A	M-5405987	M-2881766	
4500	ICV40	150mm	N/A	M-5473074	M 0004766	
4583	ISX10	152mm	N/A	M-5473075	M-2881766	
4504	ISX10	150mm	N/A	M-5473069	M 0004766	
4584	13/10	152mm	N/A	M-5473070	M-2881766	
4E0E	ICV40	150mm	N/A	M-5473069	M 0004766	
4585	ISX10	152mm	N/A	M-5473070	M-2881766	
1E06	ICV10	150mm	N/A	M-5473074	M 2004766	
4586	ISX10	152mm	N/A	M-5473075	M-2881766	
4507	ICV40	150mm	N/A	M-5473069	M 0004766	
4587	ISX10	152mm	N/A	M-5473070	M-2881766	
4500	ICV10	150mm	N/A	M-5473069	M 2004760	
4588	ISX10	152mm	N/A	M-5473070	M-2881766	
1761	ICV10	150mm	N/A	M-5473074	M 2004760	
4761	ISX10	152mm	N/A	M-5473075	M-2881766	

CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
9046	ISX 450 ST2	150mm	N/A	M-4376171	M 4055500	R-4062567
8046	13/ 450/312	152mm	N/A	M-4376429	M-4955590	K-4002007
8047	ISX 450 ST2	150mm	N/A	M-4376171	M 4055500	D 4062567
0047	13/ 430/312	152mm	N/A	M-4376429	M-4955590	R-4062567
8048	ISX1 / ISX2	150mm	N/A	M-4376171	M-4955590	D 4062567
0040	13/1/13/2	152mm	N/A	M-4376429	WI-4955590	R-4062567
8081	Industrial / GenSet	150mm	M-4352288	In Development	M-4955590	R-4062569
8083	ISX1 / ISX2	150mm	N/A	M-4376171	M 4055500	D 4062560
0003	13/1/13/2	152mm	N/A	M-4376429	M-4955590	R-4062569
8125	ISX2 / ISX3 EGR	150mm	N/A	M-4376174	M-4955591	R-4088665
0123	ISAZ/ISAS EGR	152mm	N/A	M-4376428	WI-495559 I	K-4000000
8142	Industrial / GenSet	150mm	M-4352288	In Development	M-4955590	R-4062569
9242	ISX1 / ISX2	150mm	N/A	M-4376171	M 4055500	R-4062569
8242	13/1/13/2	152mm	N/A	M-4376429	M-4955590	
8243	10/4 / 10/2	150mm	N/A	M-4376171	M 4055500	R-4088327
0243	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	
9244	ISX1 / ISX2	150mm	N/A	M-4376171	M 4055500	R-4088301
8244	13/1/13/2	152mm	N/A	M-4376429	M-4955590	K-4000301
0046	ICV2 / Cianatura	150mm	N/A	M-4376172	M 4055500	D 4000E00
8246	ISX3 / Signature	152mm	N/A	In Development	M-4955590	R-4062568
0247	ICV2 / Cignoture	150mm	N/A	M-4376172	M 4055500	D 4000500
8247	ISX3 / Signature	152mm	N/A	In Development	M-4955590	R-4062568
0255	10/4 / 10/2	150mm	N/A	M-4376171	M 4055500	D 4000007
8255	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4088327
0057	1074 / 1070	150mm	N/A	M-4376171	M 4055500	D 4000007
8257	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4088327
0050	1074 / 1070	150mm	N/A	M-4376171	M 4055500	D 4000007
8258	ISX1 / ISX2	152mm	N/A	M-4376429	M-4955590	R-4088327
0004	ICVA / ICVA ECD	150mm	N/A	M-4376174	M 4055504	D 4000005
8281	ISX2 / ISX3 EGR	152mm	N/A	M-4376428	M-4955591	R-4088665
0202	10/0 / 10/0 FOD	150mm	N/A	M-4376174	M 4055504	D 4000665
8282	1312 / 1313 EGK	X2 / ISX3 EGR 152mm N/A		M-4376428	M-4955591	R-4088665
0000	10V 070 UUD	150mm	N/A	M-4376174	M AGEEGA	D 4000665
8283	ISX 870 HHP	152mm	N/A	M-4376428	M-4955591	R-4088665

CPL#	MODEL	Liner OD	IN-FRAME KIT Non-APR	APR IN-FRAME KIT (In Development)	LOWER GASKET SET	FUEL INJECTOR
0004	107, 020 11110	150mm	N/A	M-4376174	N 4055504	D 4000005
8284	ISX 870 HHP	152mm	N/A	M-4376428	M-4955591	R-4088665
0005	10V 070 LUID	150mm	N/A	M-4376174	N 4055504	D 4000005
8285	ISX 870 HHP	152mm	N/A	M-4376428	M-4955591	R-4088665
0000	ICV 070 LILID	150mm	N/A	M-4376174	M 4055504	D 400000E
8286	ISX 870 HHP	152mm	N/A	M-4376428	M-4955591	R-4088665
0007	ICV 070	150mm	N/A	M-4376175	M 4055504	D 400000E
8287	ISX 870	152mm	N/A	M-5405988	M-4955591	R-4088665
0000	ICV 070	150mm	N/A	M-4376175	M 4055504	D 4000665
8288	ISX 870	152mm	N/A	M-5405988	M-4955591	R-4088665
8469	QSX15	150mm	M-4352288	In Development	M-4955590	R-4062569
0540	ICV 070 LILID	150mm	N/A	M-4376174	M 4055504	D 4000665
8518	ISX 870 HHP	152mm	N/A	M-4376428	M-4955591	R-4088665
0510	ISX 870 HHP	150mm	N/A	M-4376174	M 4055501	R-4088665
8519	13A 0/U HHP	152mm	N/A	M-4376428	M-4955591	11-4000003
8520	101/ 070	150mm	N/A	M-4376175	M 4055501	R-4088665
0320	ISX 870	152mm	N/A	M-5405988	M-4955591	K-4000003
8521	ISX 870 HHP	150mm	N/A	M-4376174	M 4055501	D 4000665
0021	15/ 6/0 ППР	152mm	N/A	M-4376428	M-4955591	R-4088665
8522	ISX 870 HHP	150mm	N/A	M-4376174	M 4055501	D 4000665
0322	13A 0/U HHP	152mm	N/A	M-4376428	M-4955591	R-4088665
8523	ISX 870	150mm	N/A	M-4376175	M-4955591	R-4088665
0023	13/ 0/0	152mm	N/A	M-5405988	W-495559 I	K-400000
8571	QSX15	150mm	M-4352288	In Development	M-4955590	R-4062569
8587	QSX15	150mm	M-4352288	In Development	M-4955590	R-4062569
8588	QSX15-C440	150mm	M-4352288	In Development	M-4955590	R-4062569
9660	ISV 07	150mm	N/A	M-4376174	M 4055501	D 4000665
8660	ISX 07	152mm	N/A	M-4376428	M-4955591	R-4088665
8760	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
8761	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928260
8762	QSX 07	150mm	M-4352291	In Development	M-4955590	R-4928262
8764	QSX 07	150mm	M-4352291	In Development	M-4955590	

IN-FRAME ENGINE KITS

Model	Piston	Skirt Type	Top Ring Location	Top Land Diameter	Liner OD Size	In-Frame Engine Kit	Scraper Ring In-Frame Kit			
	2863938	Closed	∐iah	Lorgo	150mm	N/A	M-4376171			
	2003930	Ciosea	High	Large	152mm	IN/A	M-4376429			
	2062020	Closed	∐iah	Laura	150mm	NI/A	M-4376172			
ISX	2863939	Ciosea	High	Large	152mm	N/A	N/A			
CM570	2002625	Classed	∐iah	Daduaad	150mm	N/A	M-4376171			
	2882635	Closed	High	Reduced	152mm	IN/A	M-4376429			
	2882636	Closed	∐iah	Reduced	150mm	N/A	M-4376172			
	2002030	Closed	High	Reduced	152mm	IN/A	N/A			
	3104186	Open	∐iah	Lorgo	150mm	M-4352291				
	3104100	Open	High	Large	152mm	N/A				
	4200004	Onan	المال	Reduced	150mm	M-4352291				
QSX	4298991	Open	High	Reduced	152mm	N/A	IN			
CM570	4000000	05.05	مارة ال	Dadwaad	150mm	M-4352288	DEVELOPMENT			
	4298992	Open	High	Reduced	152mm	N/A				
	4000744	05.05	مانه ال	Lawas	150mm	M-4352288				
	4923744	Open	High	Large	152mm	N/A				
	2882630	Closed	I II ada	Reduced	150mm	N/A	M-4376175			
			High		152mm		M-5405988			
	2882631	Closed	High	Reduced	150mm	N/A	M-4376174			
ISX					152mm		M-4376428			
CM870 CM871	0004407	0004407	2004407	2604467	011	LP ala	Lanna	150mm	N1/A	M-4376174
OWO7 1	3684467	Closed	High	Large	152mm	N/A	M-4376428			
	22244=2	0004470	2604472	011	I P ala	Lana	150mm	N1/A	M-4376175	
	3684472	Closed	High	Large	152mm	N/A	M-5405988			
	0000000	011	1	Lanna	150mm	N1/A	M-5473065			
	3686366	Closed	Low	Large	152mm	N/A	M-5473066			
	0007477	Olanad	1	Lanna	150mm	NI/A	M-5473069			
	3687177	Closed	Low	Large	152mm	N/A	M-5473070			
	0007005	0 .			150mm	N1/A	M-5473074			
ISX15	3687605	Closed	Low	Large	152mm	N/A	M-5473075			
QSX15	0007007	011	1	Dadaaad	150mm	N1/A	M-5473074			
CM2250	3687897	Closed	Low	Reduced	152mm	N/A	M-5473075			
CM2350	0000000	0' :		D. I	150mm	b.1/A	M-5473065			
	3688099	Closed	Low	Reduced	152mm	N/A	M-5473066			
	0000100	01 :		Б	150mm	N1/A	M-5473069			
	3688100	Closed	Low	Reduced	152mm	N/A	M-5473070			
	000010=	01 :			150mm	N1/2	M-5473074			
	3688405	Closed	Low	Reduced	152mm	N/A	M-5473075			

RE-RING ENGINE KITS - TWIN CAM MODELS

Part #	Qty	Description	Note
MCB4025214	1	Inframe Kit - Re-Ring - 2pc Articulated	150mm Non-APR
MCB4309389-2	1	Inframe Kit - Re-Ring - 1pc Steel	150mm Non-APR
MCB4376392-2	1	Inframe Kit - Re-Ring - 1pc Steel	152mm Non-APR with loose shim
MCB4309389-1	1	Inframe Kit - Re-Ring - 1pc Steel	150mm Non-APR with EGR
MCB4376392-1	1	Inframe Kit - Re-Ring - 1pc Steel	152mm Non-APR with EGR
MCB4376168-1	1	Inframe Kit - Re-Ring - 1pc Steel	150mm APR
MCB4376391-1	1	Inframe Kit - Re-Ring - 1pc Steel	152mm APR with loose shim

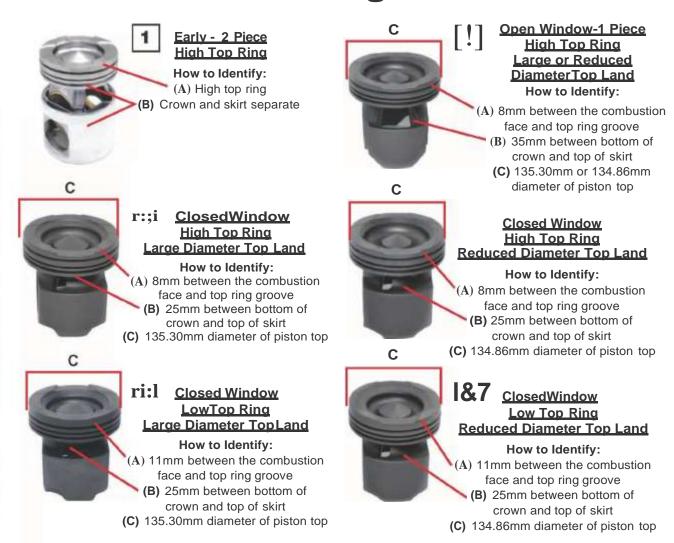
RE-RING ENGINE KITS - SINGLE CAM MODELS

Part #	Qty	Description	Note
MCB4309389	1	Inframe Kit - Re-Ring - 1pc Steel - HPCR	150mm Non-APR
MCB4376392	1	Inframe Kit - Re-Ring - 1pc Steel - HPCR	152mm Non-APR with loose shim
MCB4376168	1	Inframe Kit - Re-Ring - 1pc Steel - HPCR	150mm APR
MCB4376391	1	Inframe Kit - Re-Ring - 1pc Steel - HPCR	152mm APR with loose shim



ISX-QSX-X1S

Piston Progression



**Please note: Piston types cannot be mixed in the same engine.

Mixing piston types will lead to catastrophic engine failure.

Top Ring Identification

135.30mm 134.86mm

High Top Ring

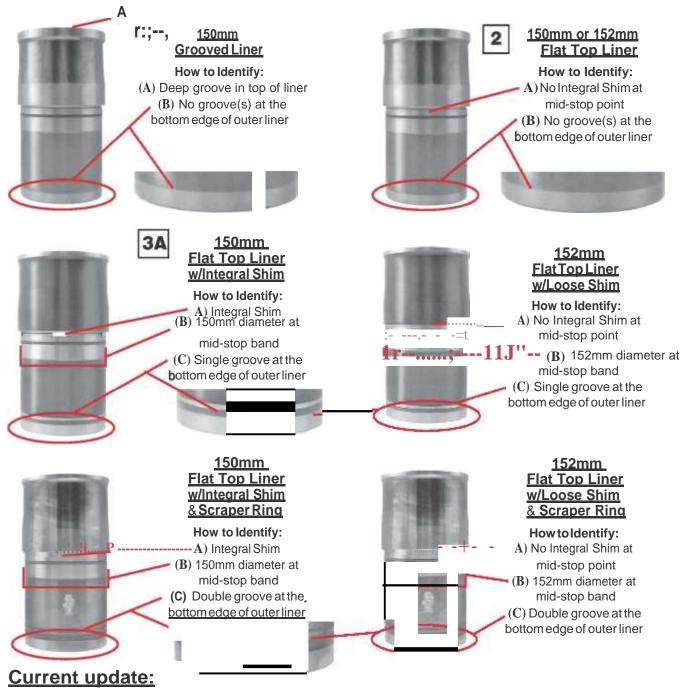
Low Top Ring

Window Identification



ISX-QSX-X1S

Cylinder Liner Progression



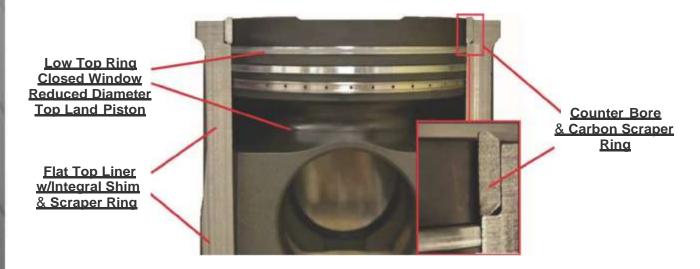
The current update refers to the introduction of the carbon scraper ring cylinder liner commonly known as an APR (Anti-Polishing Ring) liner. This liner contains a counter bore at the top in which a removable steel ring is inserted to remove the carbon from the sides of the piston preventing it from contact with the liner walls.



ISX-QSX-X1S

Power Cylinder Update

Current Power Cylinder components incorporate the use of a Carbon Scraper Ring cylinder liner commonly known as an APR (Anti-Polishing Ring) liner and a Low Top Ring, Reduced Diameter Top Land Piston. The liner contains a counter bore at the top in which a removable steel ring is inserted. This ring scrapes the carbon from the sides of the piston and aids in reducing carbon polishing of the cylinder liner walls. The Carbon Scraper Liner is designed to only be used with Low Top Ring and Reduced Diameter Pistons. These improvements are designed to aid in decreasing oil consumption, oil filter flow and DPF regeneration.



<u>Compatibility</u> <u>Cylinder Liner - Piston - Connecting Rod</u>

- Open Skirt Pistons <u>cannot</u> be used with Carbon Scraper Ring (APR) Cylinder Liners.
- High Top Ring Pistons cannot be used with Carbon Scraper Ring (APR) Cylinder Liners.
- Carbon Scraper Ring Cylinder Liners <u>must</u> use a Closed Window, Reduced Diameter, Low Top Ring Pistons
- All six cylinder liners installed <u>must</u> be of the same type.
- Liner Shims must be replaced with new shims upon installation.
- Service Tool 5299448 is <u>required</u> for Scraper Ring Liner piston installation.
- All one piece pistons require drilled connecting rods and drilled bearings.
- Machined (saw cut) connecting rods and fractured-split connecting rods require different bearings which are <u>not interchangeable</u>.



CYLINDER COMPONENTS

Part #	Qty	Description	Note
M-2881758	6	Piston Kit APR - X15 Tier 4	3688099 body
M-2881873	6	Piston Kit - ISX1 / ISX2	2882635 body
M-2881876	6	Piston Kit - ISX3 / Signature	2882636 body
M-2882023	6	Piston Kit APR - X15 Tier 4	3688100 body
M-2882080	6	Piston Kit APR - X15 Tier 4	3687897 body
M-2882118	6	Piston Kit - QSX Tier 3	4298991 body
M-2882120	6	Piston Kit - QSX Tier 2	4298992 body
M-4376241	6	Piston Kit APR - ISX 570	4357150 body
M-4376242	6	Piston Kit APR - ISX 570 - HHP	4367126 body
M-4376243	6	Piston Kit APR - ISX 870/1	4367161 body
M-4376244	6	Piston Kit APR - ISX 870/1 - HHP	4357173 body
M-4309442	6	Piston Ring Set	2pc Articulated piston
M-4309441	6	Piston Ring Set	1pc Steel piston (5405717)
M-2881756	6	Piston Ring Set	ISX15 HPCR (5405718,4376565)
M-3689296	6	Piston Pin	1pc Steel piston
M-3064305	12	Piston Pin Retainer	
M-3800453	N/A	Cylinder Liner Kit - Grooved Top	Obsolete - Not available
M-4089153	N/A	Cylinder Liner Kit - Non-APR	150mm - Obsolete use 4309389
M-4309389	6	Cylinder Liner Kit - Non-APR	150mm w/Integral Shim (4376430)
M-4376168	6	Cylinder Liner Kit - APR	150mm w/Integral Shim (5472970)
M-4376392	6	Cylinder Liner Kit - Non-APR	152mm w/ Loose Shim
M-4376391	6	Cylinder Liner Kit - APR	152mm w/ Loose Shim (5473000)
M-3678738	6	Cylinder Liner Seal Ring	150mm - Pink
M-3685234	6	Cylinder Liner Seal Ring	152mm - Blue
M-3687058	6	Piston Cooling Nozzle	1pc Piston (Liner located type)
M-4059429	6	Connecting Rod	Drilled machined rod
M-3678574	24	Connecting Rod Bolt	Machined rod
M-3689108	6	Connecting Rod	Fractured rod
M-3678574	24	Connecting Rod Bolt	Fractured rod
M-5298564	AR	Counterbore Shim020"	Ref #2892402
M-5298565	AR	Counterbore Shim032"	Ref #2892403

CAUTION: The Interstate-McBee piston kits above must be used in full engine sets and cannot be mixed in an en

ENGINE BEARINGS

Part #	Qty	Description	Note
M-4089405	6	Connecting Rod Bearing - STD	
M-4090016	6	Connecting Rod Bearing25mm	Drilled machined Rod
M-4090017	6	Connecting Rod Bearing50mm	
M-2882087	6	Connecting Rod Bearing - STD	
M-4376360	6	Connecting Rod Bearing25mm	Fractured rod
M-4376361	6	Connecting Rod Bearing50mm	
M-4089139	6	Connecting Rod Bearing - STD	Non-Drilled rod ONLY
M-3800298	1	Main Bearing Set - STD	(5406110)
M-4089845	1	Main Bearing Set25mm	(5406111)
M-4089846	1	Main Bearing Set50mm	(5406112)
MCB7107	1	Camshaft Bushing Kit - STD	Twin-Cam
M-3680580	4	Injector Camshaft Bushing	
M-3680581	3	Injector Camshaft Bushing	
M-4026423	7	Valve Camshaft Bushing	
MCB7108	1	Camshaft Bushing Kit - 1.0mm	Twin-Cam
MCB7105	4	Injector Camshaft Bushing	
MCB7106	3	Injector Camshaft Bushing	
MCB7114	7	Valve Camshaft Bushing	
M-4026423	7	Valve Camshaft Bushing - STD	Single-Cam (3685690)
MCB7114	7	Valve Camshaft Bushing - 1.0mm	
M-4059448	6	Connecting Rod Bushing	Drilled machined rod
M-2882581	6	Connecting Rod Bushing	Fractured rod

CYLINDER BLOCK

Part #	Qty	Description	Note
M-3015865	4	Expansion Plug	
M-3007632	2	Expansion Plug	
M-3901846	2	Dowel Pin	
M-3678506	14	Main Cap Bolt	

GASKET SETS

Qty	Description	Note
1	Upper Gasket Set	Non-EGR engines
1	Upper Gasket Set	EGR engines
1	Upper Gasket Set	ISX HPCR engines
1	Upper Gasket Set	QSX HPCR engines
T		
1	Lower Gasket Set	Non-EGR engines
1	Lower Gasket Set	EGR engines
1	Lower Gasket Set	ISX HPCR engines
1	Lower Gasket Set	QSX HPCR engines
1	GearCoverGasketSet-HPI	
1	Gear Cover Gasket Set - MCRS	
1	GearCoverGasketSet-HPI	Includes housing to block gasket
1	Gear Cover Gasket Set - MCRS	Includes housing to block gasket
1		
6	HPI Injector O-Ring Kit	External seals
6	HPI Injector O-Ring Kit	External seals & screens
1	HPI Injector Seal Kit	O-rings, seal & retainer pin
1	HPI Injector Seal - O/H Kit	O-rings, seal, retainer pin & screens
6	HPCR Injector O-Ring Kit	External seals
1	Turbocharger Gasket Set	Automotive - general coverage
		ISX/QSX w/ HX60W turbocharger
I	Turbocharger Gasker Set	13/143/ W/ FIXOUVV turbucharger
1	EGR Supplemental Gasket Set	HPI engines
	1 1 1 1 1 1 1 1 1 1 1 1 1 6 6 1 1 1	1 Upper Gasket Set 1 Upper Gasket Set 1 Upper Gasket Set 1 Upper Gasket Set 1 Lower Gasket Set 1 Gear Cover Gasket Set - HPI 1 Gear Cover Gasket Set - MCRS 1 Gear Cover Gasket Set - MCRS 1 Gear Cover Gasket Set - MCRS 6 HPI Injector O-Ring Kit 7 HPI Injector O-Ring Kit 8 HPI Injector Seal Kit 9 HPI Injector Seal - O/H Kit 1 HPCR Injector O-Ring Kit 1 Turbocharger Gasket Set 1 Turbocharger Gasket Set

CRANKSHAFT SEALS & DAMPER

Part #	Qty	Description	Note
M-4925762	1	Crankshaft Assembly	w/Gear, tone wheel & adaptor
M-4955383	1	Front Seal Kit	
M-4965569	1	Rear Seal Kit	
M-4101884	A/R	Vibration Damper	1 or 2 per unit

FLYWHEEL HOUSING

Part #	Qty	Description	Note
M-3102196	1	Flywheel Housing	
M-4965688	1	Flywheel Housing Gasket	To cylinder block
M-3026134	1	Flywheel Housing Gasket	Access cover
5525.51	<u>'</u>	in ity mission is a saming Guerror	

CYLINDER HEAD COMPONENTS

TWIN CAM

Part #	Qty	Description	Note
M-4965868	12	Intake Valve	
M-3685996	12	Intake Valve	
M-3104445	12	Intake Valve Seat	
M-4101454	12	Exhaust Valve	
M-3679537	12	Exhaust Valve Seat	ISX570 / QSX570 / Power Gen
M-3679659	12	Exhaust Valve Seat	ISX870 / QSX07
M-3680883	48	Valve Lock	
M-4026657	24	Valve Guide	
M-4312008	N/A	Valve Stem Seal - Int & Exh	Use 4356366
M-4356366	24	Valve Stem Seal - Int & Exh	"Top Hat" design
M-3679551	24	Valve Spring	
M-3680884	24	Valve Spring Retainer	
14 0070 40700	4.0		
M-3679487PR	12	Pin & Roller Kit - Valve Rocker	14mm
M-3679487	12	Pin	
M-3679336	12	Roller	
M-3679504	12	Lock Pin	
M-4026780PR	6	Pin & Roller Kit - Valve Rocker	15mm-Intake Front/Exhaust Rear
M-4319030	6	Pin	
M-4059322	6	Roller	
M-3679504	6	Lock Pin	
M-4026779PR	6	Pin & Roller Kit - Valve Rocker	15mm-Intake Rear/Exhaust Front
M-4319029	6	Pin	
M-4059322	6	Roller	
M-3679504	6	Lock Pin	
N. 40400000			
M-4319030PR	6	Pin & Roller Kit - Valve Rocker	17mm-Intake Front/Exhaust Rear
M-4319030	6	Pin	
M-4319026	6	Roller	
M-3679504	6	Lock Pin	

CYLINDER HEAD COMPONENTS TWIN CAM (cont.)

Part #	Qty	Description	Note
M-4319029PR	6	Pin & Roller Kit - Valve Rocker	17mm-Intake Rear/Exhaust Front
M-4319029	6	Pin	
M-4319026	6	Roller	
M-3679504	6	Lock Pin	
M-4312003PR	6	Pin & Roller Kit - Injector Rocker	
M-4312003	6	Pin	
M-4319027	6	Roller	
M-3679504	6	Lock Pin	
MCB3680873	6	Injector Tube Kit	Includes seal
M-3680873	6	Injector Sleeve	moludes seal
M-3678536	6	Injector Seal Ring	
MCB7141	6	Injector Sleeve - Optional	Copper alloy
M-3678536	6	Injector Seal Ring	Copper andy
W 307 0330	U	injector ocarrying	
MCB7107	1	Camshaft Bushing Kit - STD	Twin-Cam
M-3680580	4	Injector Camshaft Bushing	
M-3680581	3	Injector Camshaft Bushing	
M-4026423	7	Valve Camshaft Bushing	
MCB7108	1	Camshaft Bushing Kit - 1.0mm	Twin-Cam
MCB7105	4	Injector Camshaft Bushing	
MCB7106	3	Injector Camshaft Bushing	
MCB7114	7	Valve Camshaft Bushing	
M-3015865	7	Expansion Plug	
M-3813247	21	Expansion Plug	
M-3901846	2	Dowel Pin	
14.007070			
M-3678506	22	Cylinder Head Bolt	
M-3678804	4	Cylinder Head Bolt	
M-4026507	1	Valve Cover Gasket	
M-3104392	1	Valve Cover Gasket	ISX07 - Groove in cover
M-4026511	8	Valve Cover Noise Isolator	ISX/QSX15
M-3100895	8	Valve Cover Noise Isolator	ISX/QSX15
M-3104388	8	Valve Cover Noise Isolator	ISX07

CYLINDER HEAD COMPONENTS SINGLE CAM ISX2010 HPCR

Part #	Qty	Description	Note
M-3685996	12	Intake Valve	
M-3104445	12	Intake Valve Seat	
M-4101454	12	Exhaust Valve	
M-3679659	12	Exhaust Valve Seat	
M-3680883	48	Valve Lock	
M-4026657	24	Valve Guide	
M-4356366	24	Valve Stem Seal - Int & Exh	"Top Hat" design
M-3679551	24	Valve Spring	
M-3680884	24	Valve Spring Retainer	
M-4319030PR	6	Pin & Roller Kit - Valve Rocker	17mm-Intake Front/Exhaust Rear
M-4319029PR	6	Pin & Roller Kit - Valve Rocker	17mm-IntakeRear/ExhaustFront
MCB7243	6	Injector Tube Kit	Tube, retainer & seal
M-4026423	7	Valve Camshaft Bushing - STD	
MCB7114	7	Valve Camshaft Bushing - 1.0mm	
M-3678506	22	Cylinder Head Bolt	
M-3678804	4	Cylinder Head Bolt	
M-3104392	1	Valve Cover Gasket	
M-3104388	8	Valve Cover Noise Isolator	

LUBRICATION SYSTEM

Part #	Qty	Description	Note
M-4309499	1	Lube Oil Pump Assy	QSX cast iron
M-2881757	1	Lube Oil Pump Assy	ISX aluminum
M-5532492	1	Lube Oil Pump Assy	Cast iron
M-3800751	1	Shim Kit	
M-2892304	AR	Oil Cooler Core	63mm 10-plate stainless steel
M-4966084	2	Oil Cooler O-Ring Seal	
M-4952629	1	Oil Cooler Thermostat	235°F
M-4952631	1	Oil Cooler Thermostat	215°F
M-4955778	1	Oil Cooler Installation Kit	
M-4965482	AR	Oil Cooler Core	83mm 13-plate stainless steel
M-4966084	2	Oil Cooler O-Ring Seal	
M-4952629	1	Oil Cooler Thermostat	235°F
M-4952631	1	Oil Cooler Thermostat	215°F

COOLING SYSTEM

Part #	Qty	Description	Note
M-4318946	1	Thermostat - 160°F	ISX02 & up
M-4318947	1	Thermostat - 180°F	ISX02 & up
M-4318946	2	Thermostat - 160°F	ISX1/2
M-4336659	2	Thermostat - 180°F	ISX1/2
M-186780	A/R	Thermostat Seal	
M-4089908	1	Water Pump Assembly - 1-Piece	ISX1&2-10 groove pulley (5473366)
M-4089909	1	Water Pump Assembly - 1-Piece	QSX15 (5473363)
M-4089910	1	Water Pump Assembly - 1-Piece	ISX02/870-12 groove pulley (5473364)
M-3684449	1	Water Pump Assembly - 2-Piece	ISX871 / 2250 EGR
M-3687130	1	Water Pump Assembly - 2-Piece	ISX871 / 2250 EGR - (4386570)
M-3684450	1	Water Pump Cartridge	Cartridge only (4386576)
M-3684384	1	Water Pump Cartridge Seal Ring	
M-4090022	1	Water Pump Minor Repair Kit	Snap ring, impeller cover & O-rings
M-3678724	1	Water Pump O-Ring	Included in M-4090022
M-3680410	1	Water Pump Cover	Included in M-4090022

HPI FUEL INJECTORS

Qty	Description	Note
6	Fuel Injector - Reman	ISX1/ ISX2 / 400 / 450
6	Fuel Injector - Reman	ISX1 / ISX2 / 450 ST2
6	Fuel Injector - Reman	ISX3 / Signature / 600 / 565
6	Fuel Injector - Reman	ISX1 / ISX2 / QSX15 / QSX15-C440
6	Fuel Injector - Reman	ISX1 / ISX2 ISX500/475 ST2
6	Fuel Injector - Reman	ISX1 / ISX2
6	Fuel Injector - Reman	ISX 07/ISX2/ISX3 EGR/ISX 870/HHP
6	Fuel Injector - Reman	QSX 07
6	Fuel Injector - Reman	QSX 07
6	Fuel Injector - Reman	ISX 07
6	Fuel Injector - Reman	ISX 07
	6 6 6 6 6 6 6 6 6	6 Fuel Injector - Reman

SEE CPL MATRIX FOR EXACT APPLICATIONS

FUEL SYSTEM

Part #	Qty	Description	Note
M-4024808	1	Fuel Solenoid Kit	
	Г		
M-3417141	6	Injector Follower Spring	HPI Injectors
M-4025062	6	Injector O-Ring Kit	External seals (Ref p/n MCBISXINJ)
MCBISXINJ-1	6	Injector Screen Kit	External screens
M-4025063	A/R	Injector Seal Kit	Seals, retaining pins, dust seal
M-4025063-OH	A/R	Injector Seal - O/H Kit	Seals, retaining pins, dust seal & screens
MCBISXINJ-2	6	Injector O-Ring Kit	External seals - HPCR engines
M-4089431RK	1	Gear Pump Repair Kit	HPI fuel system

ENGINE CONTROL SYSTEM

Part #	Qty	Description	Note
M-3680284	1	ECM Isolator/Gasket	CM570
M-3682577	1	ECM Isolator/Gasket	CM870
M-4076493	1	Sensor - Pressure	Ambient Air
M-4921473	1	Sensor - Press/Temp	Intake Manifold
M-4921475	1	Sensor - Press/Temp	Oil
M-4921495	1	Sensor - Pressure	Fuel
M-4921499	1	Sensor - Pressure	Fuel
M-4921599	2	Sensor - Position	Camshaft & Crankshaft
M-4954905	1	Sensor - Temperature	Coolant/Oil/Fuel

EXHAUST SYSTEM

Part #	Qty	Description	Note
M-4965698	12	Exhaust Manifold Bolt	
M-4965512	12	Exhaust Manifold Spacer	
MCBISX009	1	Exhaust Hardware Kit	ISX/QSX CM570 - ISX CM2250
MCBISX019	1	Exhaust Hardware Kit	ISX CM870 / CM871

AFTERTREATMENT COMPONENTS

Part #	Qty	Description	Note	
M-2871863	A/R	V-Band Clamp	13"diameter Aftertreatment Models	
M-2871453	A/R	Aftertreatment Gasket	13 diameter Altertreatment Models	
M-2880215	A/R	Gasket-Inlet/Outlet Connection	6.25" O.D.	
M-2866337	A/R	Gasket-Inlet/Outlet Connection	5.75" O.D.	
MCBISX019	1	Exhaust Hardware Kit	ISX CM870 / CM871	

GASKETS - ISX/QSX HPI ■

Part #	Qty	Description	Note
M-4965690	1	Air Comp. Mounting Gasket	
M-3680284	1	ECM Isolator/Gasket	CM570
M-3682577	1	ECM Isolator/Gasket	CM870/871
M-3682066	1	EGR Mixer Seal	
M-3682177	1	EGR Mixer Seal	
M-4907448	1	Exhaust Manifold Gasket	Composite
M-4907447	4	Exhaust Manifold Gasket	Composite
M-3682940	1	Exhaust Manifold Gasket	ISX02/07 - Steel
M-3682710	4	Exhaust Manifold Gasket	ISX02/07 (5486657) - Steel
M-4965688	1	Flywheel Housing Gasket	To cylinder block (4393176)
M-3026134	1	Flywheel Housing Gasket	Access cover
M-4962721	1	Front Cover Seal Strip	Upper
M-4962722	1	Front Cover Seal Strip	Lower
M-2872195	1	Fuel Pump Mounting Gasket	
M-3867481	1	Fuel Pump Mounting Seal	
M-4985562	1	Gear Housing Gasket	To cylinder block
M-3678770	1	Intake Connection Gasket	
M-3066211	1	Intake Connection Seal	
M-3033247	1	Intake Connection Seal	ISX02/07
M-4973532	4	Oil Cooler Core Gasket	
M-4955592	1	Oil Cooler Housing Gasket	(4376196)
M-3678606	1	Oil Pan Drain Plug Seal	
M-4026684	1	Oil Pan Gasket	
M-3678756	1	Oil Pickup Tube Seal	
M-3680602	1	Thermostat Cover Gasket	
M-3682673	1	Thermostat Cover Gasket	ISX02/07





GASKETS - ISX/QSX HPI (cont.)

Part #	Qty	Description	Note
M-3684336	1	Thermostat Housing Gasket	
M-3678602	2	Thermostat Housing O-Ring	
M-186780	2	Thermostat Seal	
M-186780	1	Thermostat Seal	ISX02/07
M-3680324	1	Turbo Flange Gasket	
M-3101268	1	Turbo Flange Gasket	ISX02/07
M-4026884	1	Turbo Mounting Gasket	
M-3102314	1	Turbo Mounting Gasket	ISX02/07
M-3679139	1	Turbo Oil Supply O-Ring	
M-3066211	1	Turbo Outlet Seal	
M-3682177	1	Turbo Outlet Seal	ISX02
M-4026507	1	Valve Cover Gasket	
M-3104392	1	Valve Cover Gasket	ISX07 - grooved cover
M-3679937	1	Valve Cover Gasket	
M-3678724	1	Water Pump O-Ring	
M-3684384	1	Water Pump O-Ring	Cartridge to pump housing
M-4059172	1	Water Pump O-Ring	
M-3683814	2	Water Pump O-Ring	EGR coolant tube



GASKETS - ISX15 HPCR

D 1 "			N
Part #	Qty	Description	Note
M-3685614	1	Air Comp. Mounting Gasket	
M-4907448	1	Exhaust Manifold Gasket	CM2250 - Composite
M-4907447	4	Exhaust Manifold Gasket	CM2250 - Composite
M-3682940	1	Exhaust Manifold Gasket	CM2350 - Steel
M-3682710	4	Exhaust Manifold Gasket	CM2350 (5486657) - Steel
M-4965688	1	Flywheel Housing Gasket	To cylinder block (4393176)
M-3026134	1	Flywheel Housing Gasket	Access cover
M-3687007	1	Front Cover Seal Strip	
M-3686758	1	Fuel Pump Mounting Gasket	(5414049)
M-4393089	1	Gear Housing Gasket	To cylinder block
M-3033247	1	Intake Connection Seal	
M-3688347	1	Intake Manifold Gasket	
M-4973532	2	Oil Cooler Core Gasket	
M-3104232	1	Oil Cooler Housing Gasket	(3689755)
M-3678606	1	Oil Pan Drain Plug Seal	
M-4026684	1	Oil Pan Gasket	
M-3678756	1	Oil Pickup Tube Seal	
M-3682673	1	Thermostat Cover Gasket	
M-3684336	1	Thermostat Housing Gasket	
M-186780	1	Thermostat Seal	
M-3685535	1	Turbo Mounting Gasket	(3695041)
M-3679139	1	Turbo Oil Supply O-Ring	
M-5264570	1	Turbo Drain Gasket	
M-3104392	1	Valve Cover Gasket	
M-3678724	1	Water Pump O-Ring	
M-4059172	1	Water Pump O-Ring	
M-3683814	2	Water Pump O-Ring	EGR coolant tube
		-	





Part #	Description	Page #
2863938	Piston	10
2863939	Piston	10
2882630	Piston	10
2882631	Piston	10
2882635	Piston	10
2882636	Piston	10
3104186	Piston	10
3684467	Piston	10
3684472	Piston	10
3686366	Piston	10
3687177	Piston	10
3687605	Piston	10
3687897	Piston	10
3688099	Piston	10
3688100	Piston	10
3688405	Piston	10
4298991	Piston	10
4298992	Piston	10
4923744	Piston	10
M-186780	Thermostat Seal	24, 25
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INTERSTATE-MCBEE, LLC LIMITED GENERAL PRODUCTS WARRANTY

- All Fuel Injection. New & Remanufactured
- Engine Management Systems & Components

Coverage

The parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months (unlimited miles and hours), from date of first installation in an engine. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

This warranty does not apply to parts provided by Interstate Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond twenty four (24) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

The obligation of Interstate-McBee under this warranty, statutory or otherwise, is limited to the replacement or repair of Interstate-McBee parts, which our inspection discloses to our satisfaction to have been defective. Repair will be performed at our factory in Cleveland, OH or other Interstate-McBee approved facility. Proof of purchase is required.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. Copies of all work orders and invoices for repairs to the engine must accompany the claim. Additionally, on electronically controlled engines a complete Electronic Control Module (ECM) report (Extraction, Download) must also accompany the claim. ALL CLAIMS MUST BE FILED ONLINE ATWWW.INTERSTATE-MCBEE.COM.

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; over-speeding; lack of maintenance of lubricating system, coolant or air intake systems; improper storage, or starting. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee. In no event shall this warranty extend beyond (twenty four (24) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Intestate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's Extended Warranty). Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof is prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or the enforceability of any other warranty provisions or portions thereof.

INTERSTATE-MCBEE, LLC LIMITED EXTENDED WARRANTY

• Engine Parts

Diesel Engine

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months from the date of installation, without mileage or hour limitation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

Natural Gas or Methane Engine and Prime Power Generation

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service, for a period of twenty four (24) months from the date of installation with the exception of valve train components which are warranted for twelve (12) months from the date of installation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

INTERSTATE-MCBEE RESPONSIBILITIES

Interstate-McBee will pay only for parts, labor and fluids needed to repair damages directly resulting from an above defined warranty failure to the functional condition existing immediately prior to the failure, including progressive damage to the engine in which the warrantable part was installed, provided Interstate-McBee's inspection of said failed part or parts discloses to our satisfaction to have been defective. Labor cost will be paid but not to exceed published flat rates times at Interstate-McBee's standard hourly rate. No overtime or holiday rates will be allowed. Only new or rebuilt Interstate-McBee or Interstate-McBee approved parts will be used in making the repair.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Additionally, a complete Electronic Control Module report must accompany the claim. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Approved warranty work is to be performed by an authorized Interstate-McBee Distributor or Dealer or other Interstate-McBee approved facility. Copies of all work orders and invoices for repairs to the engine must accompany the claim. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. ALL CLAIMS MUST BE FILED ONLINE ATWWW. INTERSTATE-MCBEE.COM

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; over fueling; over speeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and trademark of another company. These parts are warranted by their manufacturers and not Interstate-McBee. In no event shall this warranty extend beyond (36) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Intestate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's General Product Warranty.) Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or enforceability of any other warranty provisions or portions thereof.