



IPD Technical Bulletin

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All versions of ISX, ISX15, X15 and QSX15 engines

There are three main bearing sets used in these engines. While the main bearings themselves are the same across all sets, the thrust bearings (plates/washers) differ. The correct main bearing set is determined by the specific combination of the cylinder blocks and crankshafts. The engine serial number can identify the cylinder block, crankshaft and main bearing set originally installed at the time of manufacture. However, if the engine has been altered since its original release, the actual cylinder block and crankshaft numbers are required to identify the correct main bearing set or thrust bearings.

The chart below shows the compatible component options.

Cylinder Block Numbers	Crankshaft Part Numbers	Main Bearing Set Number
4965679 3686003 3686832 4298518 4311630 4311628 5547280	4923646 3681911 4925762 4330732 3691444 4393462	5406110 Main bearing set includes crankshaft thrust bearing number 3691445
5660891 5679823 5658390	4393462 5558781	5633630 Main bearing set includes crankshaft thrust bearing number 5558763
5660891 5679823 5658390	4923646 3681911 4925762 4330732 3691444	5633631 Main bearing set includes crankshaft thrust bearing number 5575102
4965679 3686003 3686832 4298518 4311630 4311628 5547280	5558781	5406110 Main bearing set includes crankshaft thrust bearing number 3691445. Using this combination of cylinder block and crankshaft requires replacement of the full gear train to be compatible with the crankshaft gear.

The chart below shows the service part number for the cylinder blocks, crankshafts and main bearings.

Part Description	Existing Part Number	Superseded	New Part Number
Cylinder Block	4965679	Yes	5660891
Cylinder Block	3686003	Yes	5660891
Cylinder Block	3686832	Yes	5660891
Cylinder Block	4298518	Yes	5660891
Cylinder Block	4311630	Yes	5660891
Cylinder Block	4311628	Yes	5660891
Cylinder Block	5547280	Yes	5660891
Cylinder Block	5660891	Yes	5679823
Cylinder Block	5679823	No	
Cylinder Block	5658390	No	
Crankshaft	4923646	Yes	4393462
Crankshaft	3681911	Yes	4393462
Crankshaft	4925762	Yes	4393462
Crankshaft	4330732	Yes	4393462
Crankshaft	3691444	Yes	4393462
Crankshaft	5440758	Yes	4393462
Crankshaft	4393462	No	
Crankshaft	5558781	No	
Main Bearing Kit	5406110	No	
Main Bearing Kit	5633630	No	
Main Bearing Kit	5633631	No	

Consult the OE's latest service bulletins and publications for possible updates.