MERCURY MerCruiser

Service Bulletin

Bulletin No. 2007-11R2

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Revised June 2008. This bulletin replaces dealer service bulletin 2007-11R1.

New Part Numbers for V6 Longblocks

Models Covered	Serial Number
All MerCruiser Gen+ 4.3L models	0F691000 and above

Situation

This bulletin explains the requirements for repowering from a 3X longblock to a 58X longblock. MerCruiser is using the new General Motors 4.3 L V6 longblock in production, beginning with serial number 1A063240. General Motors changed from a 3X (segment) reluctor wheel to a 58X (segment) reluctor wheel on the 4.3 L V6, allowing for more precise ignition timing and fuel management. The longblock with the 3X reluctor wheel is NLA. The new longblock configuration is also used on carbureted engines that do not use a crankshaft position sensor for timing.

Correction

IMPORTANT: When replacing a V6 with a serial number below 0M324698 or with one-piece exhaust manifolds, you must order the correct Mercury-remanufactured longblock. See the Mercury Remanufacturing Product Guide for part numbers.
A seawater pump bracket is not available for a 4.3 L carbureted engine with a Bravo sterndrive and seawater cooling. This single application requires a remanufactured longblock.

NOTE: *The 58X longblock does not use a knock sensor. Do not use the knock sensor from a 3X longblock with a 58X replacement longblock.*

For engines with two-piece exhaust manifolds, serial number 0M324698 and later, refer to the following tables for the parts required to install a 58x replacement longblock.

Additional Parts Required to Replace a 3X Longblock with a 58X Longblock

Remanufactured longblocks require gaskets only. (Refer to Table 1.) For new longblocks, consult each of the following tables for parts needed.

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Table 1: Longblocks

Order the following parts, as specified. Refer to Table 2 for required wiring and gaskets.

Engine model	Serial number range	Mercury Remanufactured Longblock Part Numbers (order gaskets separately)	New Longblock Part Numbers (intake and exhaust gaskets included)
4.3 L carbureted	0M324698 and above	Refer to the Mercury Remanufacturing Guide	879150A31
4.3 L MPI	0M324698–0W649999	864256R05	879150A31
4.3 L MPI	0W650000–1A063239	864256R05	879150A31
4.3 L MPI	1A063240 and above	N/A	879150A31

Table 2: Wiring and Gaskets

Order the following parts, as specified.

Engine model	Serial number range	Required Parts
4.3 L carbureted	0M324698 and above	None
4.3 L MPI	0M324698–0W649999	14-pin to 10-pin adapter harness 84-866337T01 Engine harness with brackets 84-879150T47 Transom harness 84-865677T02 IAC Adapter 866295A02 Screw 10-40086-12, qty. 2 Screw 10-40088-20, qty. 2 ECM as specified in table 3
4.3 L MPI	0W650000–1A063239	Engine harness without brackets 84-879172155 ECM as specified in table 3
4.3 L MPI	1A063240 and above	None

Table 3: New ECM Required to use the New 58X 4.3 L V6 Longblock

Order the proper ECM when replacing engine serial numbers 0M324698 to 1A063239. Match the drive type and cooling system to determine the proper calibration.

Drive	Engine cooling system	Part number
Alpha	Seawater cooled	865830T08
Alpha	Closed cooling	865831T08
Bravo	Seawater cooled	865832T07
Bravo	Closed cooling	865833T07

Table 4: Seawater Pump Bracket

Order a new sea water pump mounting bracket for all Bravo-equipped models below serial number 1A063240.

Engine model	Serial number range	Seawater pump bracket
Carbureted models with Bravo drive and seawater cooling	0M324698–1A063239	No bracket available. Use a 3X remanufactured longblock engine only
MPI models with Bravo drive and seawater cooling	0M324698–1A063239	865143T01
Carbureted models with Alpha or Bravo drive and closed cooling	0M324698–1A063239	865143T01
MPI models with Alpha or Bravo drive and closed cooling	0M324698–1A063239	865143T01

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Warranty

If a longblock is replaced under warranty, the additional parts required will be supplied under warranty. Contact Mercury MerCruiser Technical Service for authorization.

If a 3X longblock is replaced outside of warranty, it is up to the customer to purchase the separate items.

For replacements outside of warranty, a Mercury-remanufactured 3X longblock is a logical alternative to a new 58X longblock. A remanufactured longblock costs less, has the same warranty as new, and does not require purchase of the additional parts needed to install the new 58X longblock.

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