



# Service Bulletin

Bulletin No. 2018-01R1  
OEM No. 2018-01R1

Circulate to:  Sales Manager  Accounting  Service Manager  Technician  Parts Manager

## 5.0L Service Longblock Availability

<b>NOTICE</b>
Revised July 2018. This bulletin supersedes the previous bulletin number 2018-01 June 2018.

### Models Affected

Description	Serial Number Or Year
5.0L GM Manufactured Replacement Longblock Assemblies	All

### Scope

Worldwide

### Situation

General Motors has ceased 5.0L longblock assembly production.

### Engine Replacement Options

Mercury Marine offers several complete or partial engine replacement options to provide the best repower alternative for dealers and their customers.

- Pending NLA 5.0L longblock
- Quicksilver Crate Engine
- Plus Series Non-ECT Engine
- MerCruiser 4.5L and 6.2L Engine

**IMPORTANT:** It is the responsibility of the dealership and the installing technician to ensure the engine assembly that will be installed, does not adversely affect how the boat handles or the manufacturer's capacity plate specifications as it relates to: horsepower rating, or onboard weight capacity.

**NOTE: Dual engines**—Mercury Marine recommends the replacement of both engines in dual engine applications when a direct replacement engine of the same horsepower is not available.

**NOTE:** When replacing a 5.0L engine with a 5.7L engine model, more engine power will be available, and may have a different recommended RPM operating range. Therefore, it may be necessary to change the propeller pitch or the sterndrive gear ratio to ensure that the engine operates within the recommended RPM range. Allowing the engine not to operate within the recommended WOT RPM range, will reduce the expected life span of the engine or may cause engine damage. Damage caused from not operating the engine within the recommended WOT RPM range is not covered by the limited warranty.

1. Quicksilver crate engine alternates for the 5.0L longblock.

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Pending NLA GM Longblock 5.0L	5.0L Fit Description	Quicksilver Crate Engine	Serial Number
8M0088396	New 5.0L Longblock Fits 1998–2015	350 Carbureted Alpha 300 HP 8M0079530	0L015751 and Up
		350 Carbureted Bravo 325 HP 8M0079531	0L015751 and Up
	New 5.0L Magnum MPI Longblock Fits 1998–2015	350 MPI Alpha and Bravo 300 HP 8M0092946	0M300000–0W309999
		350 MPI Alpha and Bravo 300 HP 8M0093550	0W310000 and Up

**NOTE:** DTS models require that the throttle body on the original engine be removed and installed onto the crate engine.

**IMPORTANT:** MPI replacement engines are not compatible with EFI or TBI engines. Options—order a carbureted model Quicksilver crate engine or repower with a Plus Series engine.

- Plus Series non-ECT engine - refer to the current Repower Product Guide for detailed descriptions.

Remanufactured Plus Series Engines (Non-ECT)			
Horsepower	Liter Displacement	Drive Type	Part Number
225	4.3 – four barrel	Alpha	865108R89
275	5.7 – four barrel	Alpha	865108R88
300	5.7 – MPI	Alpha	863611R11
325	5.7 – four barrel	Bravo	865108R85

100% New Quicksilver Engines (Non-ECT)			
Horsepower	Liter Displacement	Drive Type	Part Number
300	5.7 – MPI	Alpha	8M0136293
300	5.7 – MPI	Bravo	8M0136294

- MerCruiser 4.5L and 6.2L engine - contact Mercury Marine for order assistance.

## ECM/PCM Controllers for 350 MPI Quicksilver Crate Engines

To assist with the conversion of a 5.0L MPI to a 350 MPI Quicksilver crate engine, we are offering an ECM/PCM exchange program for MerCruiser applications.

Select the controller part number from the tables listed in the following pages and order from Mercury Marine or your parts distributor. If the engine serial number is not available on the existing engine, contact Mercury Marine Technical Service or your parts distributor for identification assistance. The cost of the controller will be credited by following the voucher process instructions on the PDI form and including the voucher with the returned parts.

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## 350 MPI 2002–2004

Crate Engine Description	Engine Part Number	Serial Number Range	ECM/PCM Type	ECM/PCM Part Number
350 MPI 2002–2004	8M0092946	0M300000–0M599999	ECM–Alpha	865838T03
			ECM–Bravo	864377T06
		0M600000–0W029410	ECM–Alpha	865838T03
			ECM–Alpha FWC	865839T03
			ECM–Bravo	864377T06
			ECM–Bravo FWC	865005T03
		0W029411–0W309999	ECM–Alpha	865838T03
			ECM–Alpha FWC	865839T03
			ECM–Bravo	865840T02
			ECM–Bravo FWC	865841T02

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## 350 MPI Non-ECT 2005–2015

Crate Engine Description	Engine Part Number	Serial Number Range	ECM/PCM Type	ECM/PCM Part Number
350 MPI 2005–2015	8M0093550	0W310000–0W649999	ECM–Alpha	866122T06
			ECM–Alpha FWC	866123T06
			ECM–Bravo	866124T06
			ECM–Bravo FWC	866125T06
			PCM DTS–Bravo	866238T04
			PCM DTS–Bravo FWC	866239T04
		0W650000–1A343327	ECM–Alpha	866122T05
			ECM–Alpha FWC	866123T05
			ECM–Bravo	866124T05
			ECM–Bravo FWC	866125T05
			PCM DTS–Bravo	866238T04
			PCM DTS–Bravo FWC	866239T04
		1A343328 and up	ECM–Alpha	879194T86
			ECM–Alpha FWC	879194T87
			ECM–Bravo	879194T88
			ECM–Bravo FWC	879194T89
			PCM DTS–Bravo	8M0059271
			PCM DTS–Bravo FWC	8M0059272
			PCM–Axius	879288T90
			PCM–Axius FWC	879288T91

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## 350 MPI ECT 2005–2015

Crate Engine Description	Engine Part Number	Serial Number Range	ECM/PCM Type	ECM/PCM Part Number
350 MPI 2005–2015	8M0093550	1A300000–1A648622	PCM–Alpha	8M0071879
			PCM–Alpha FWC	8M0071878
			PCM–Bravo	8M0072017
			PCM–Bravo FWC	8M0071880
			PCM DTS–Bravo	8M0072020
			PCM DTS–Bravo FWC	8M0071885
			PCM–Axius	8M0072023
			PCM–Axius FWC	8M0071889
		1A648623–2A446466	PCM–Alpha	8M0059355
			PCM–Alpha FWC	8M0059356
			PCM–Bravo	8M0059357
			PCM–Bravo FWC	8M0059358
			PCM DTS–Bravo	8M0059367
			PCM DTS–Bravo FWC	8M0059368
		2A446467 and up	PCM–Alpha	8M0099863
			PCM–Alpha FWC	8M0059356
			PCM–Bravo	8M0099866
			PCM–Bravo FWC	8M0099868
PCM DTS–Bravo	8M0099865			
PCM DTS–Bravo FWC	8M0099867			

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# PREDELIVERY INSPECTION—REPOWER

## Predelivery Inspection Checklist

Not Applicable	Check/Adjust	Task	Not Applicable	Check/Adjust	Task
<b>Check Before Running:</b>			<b>On-Water Testing:</b>		
<input type="checkbox"/>	<input type="checkbox"/>	Drain plug installed and petcocks closed	<input type="checkbox"/>	<input type="checkbox"/>	Verify MerCathode LED light is on (if equipped)
<input type="checkbox"/>	<input type="checkbox"/>	Seawater inlet valve open	<input type="checkbox"/>	<input type="checkbox"/>	Engine alignment (inboards only)
<input type="checkbox"/>	<input type="checkbox"/>	Engine mounts tight	<input type="checkbox"/>	<input type="checkbox"/>	Starter neutral safety switch operation
<input type="checkbox"/>	<input type="checkbox"/>	Engine alignment	<input type="checkbox"/>	<input type="checkbox"/>	Water pump operation
<input type="checkbox"/>	<input type="checkbox"/>	Drive unit fasteners torqued	<input type="checkbox"/>	<input type="checkbox"/>	Instruments operation
<input type="checkbox"/>	<input type="checkbox"/>	Power trim cylinders fasteners tight	<input type="checkbox"/>	<input type="checkbox"/>	Fuel leaks
<input type="checkbox"/>	<input type="checkbox"/>	Battery fully charged and secured	<input type="checkbox"/>	<input type="checkbox"/>	Oil leaks
<input type="checkbox"/>	<input type="checkbox"/>	All electrical connections tight	<input type="checkbox"/>	<input type="checkbox"/>	Water leaks
<input type="checkbox"/>	<input type="checkbox"/>	Exhaust system hose clamps tight	<input type="checkbox"/>	<input type="checkbox"/>	Exhaust leaks
<input type="checkbox"/>	<input type="checkbox"/>	All fuel connections tight	<input type="checkbox"/>	<input type="checkbox"/>	Ignition timing
<input type="checkbox"/>	<input type="checkbox"/>	Correct rotation propeller (installed and torqued)	<input type="checkbox"/>	<input type="checkbox"/>	Idle _____ RPM, within specifications
<input type="checkbox"/>	<input type="checkbox"/>	Throttle, shift, and steering system fasteners tightened properly	<input type="checkbox"/>	<input type="checkbox"/>	Forward - Neutral - Reverse gear operation
<input type="checkbox"/>	<input type="checkbox"/>	Throttle plates open and close completely	<input type="checkbox"/>	<input type="checkbox"/>	Steering operation throughout range
<input type="checkbox"/>	<input type="checkbox"/>	Crankcase oil level	<input type="checkbox"/>	<input type="checkbox"/>	Acceleration from idle RPM
<input type="checkbox"/>	<input type="checkbox"/>	Power trim oil level	<input type="checkbox"/>	<input type="checkbox"/>	WOT _____ RPM within specifications (in <b>forward</b> gear)
<input type="checkbox"/>	<input type="checkbox"/>	Sterndrive unit oil level	<input type="checkbox"/>	<input type="checkbox"/>	Power trim operation
<input type="checkbox"/>	<input type="checkbox"/>	Power steering fluid level	<input type="checkbox"/>	<input type="checkbox"/>	Trim tab adjustment/boat handling
<input type="checkbox"/>	<input type="checkbox"/>	Closed cooling level	<b>After On-Water Testing:</b>		
<input type="checkbox"/>	<input type="checkbox"/>	Transmission fluid level	<input type="checkbox"/>	<input type="checkbox"/>	Propeller nut torque
<input type="checkbox"/>	<input type="checkbox"/>	Alternator belt tension	<input type="checkbox"/>	<input type="checkbox"/>	Fuel, oil, coolant, water, and fluid leaks
<input type="checkbox"/>	<input type="checkbox"/>	Seawater pickup pump belt tension	<input type="checkbox"/>	<input type="checkbox"/>	Oil and fluid levels
<input type="checkbox"/>	<input type="checkbox"/>	Power assisted steering pump belt tension	<input type="checkbox"/>	<input type="checkbox"/>	Apply Quicksilver Corrosion Guard to engine package
<input type="checkbox"/>	<input type="checkbox"/>	Audio warning system operation	<input type="checkbox"/>	<input type="checkbox"/>	Verify presence of operation and maintenance manual
			<input type="checkbox"/>	<input type="checkbox"/>	Show customer location of MerCathode controller (See the operation manual for light functions)
<b>For boats registered to California residents:</b>					
<input type="checkbox"/>	<input type="checkbox"/>	CARB hang tag in boat			
<input type="checkbox"/>	<input type="checkbox"/>	CARB decal properly affixed to boat hull			
<input type="checkbox"/>	<input type="checkbox"/>	Proposition 65 hang tag in boat			

Component	Serial Number, Part Number, or Invoice Order Number
Original engine serial number (5.0L)	
Replacement engine serial number (5.7L Crate)	
Replacement engine invoice order number	
Original 5.0L MPI controller part number	
Replacement MPI controller part number	
Replacement MPI controller invoice order number	

## ECM/PCM Credit Voucher Process

### Continental United States and Canada—ECM and PCM Replacement Credit

**IMPORTANT:** Customers in the continental U.S. and Canada should return items listed below to the appropriate address. All other customers should return parts to their distribution center. The distribution center will return the parts to Mercury Marine.

#### Items to Return

Please note the information requested in the table below; do not write on the ECM or PCM.

- Copy of the purchase invoice for a 5.7L Quicksilver Crate Engine.
- Copy of 5.7L Quicksilver Crate Motor PDI including table listing serial numbers, part numbers, and invoice order numbers.
- Installation date
- Original engine ECM or PCM

#### Send to:

Returns must be sent freight prepaid to the appropriate address as listed below.

Authorized distributors returning products must include the purchase order numbers.

*In the Continental United States:*

Mercury Marine  
Attn.: Return Goods  
W6250-22A Pioneer Road  
Fond du Lac, WI 54935

*In Canada:*

Mercury Marine Canada  
Attn.: Return Goods  
8698 Escarpment Way  
Milton, Ontario L9T 0M1

### Outside the Continental United States and Canada—ECM and PCM Replacement Credit

1. Purchase the replacement ECM or PCM through your usual part order channel.
2. Preauthorization is required before the claim is submitted to the Marine Power International office or your distributor.
3. Submit a warranty claim to the Marine Power International office or your distributor.
4. Complete the warranty claim form with the following:
  - Engine serial number
  - Date of sale
  - No labor allowed
  - Part Code: 731
  - Code Failure: 40 - Fix program

**Products of Mercury Marine**  
W6250 Pioneer Road  
Fond du Lac, WI 54936-1939

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