

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

All MerCruiser ECT Engines and 8.2 Non ECT Engine Wiring Harness Connections Repair Kits

Models Affected

Models Covered
MerCruiser, MCM, MIE, Bravo, Alpha

Situation

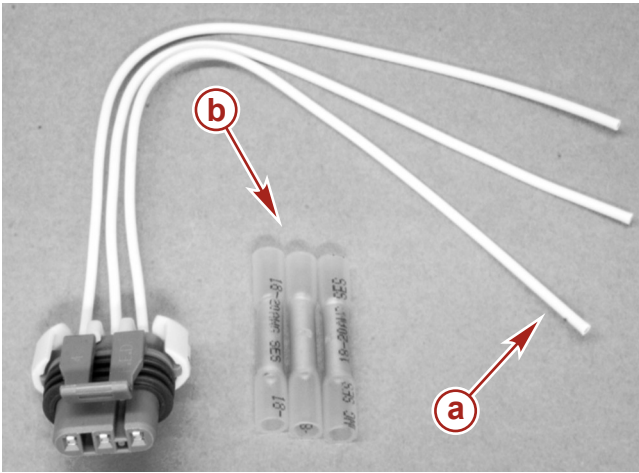
This service bulletin releases the MerCruiser ECT engine and 8.2 non ECT engine wiring harness connection repair kits. These kits can be used for warranty on an engine wiring harness and is an economical alternative repair. These kits are intended to eliminate unnecessary complete engine wiring harness replacement.

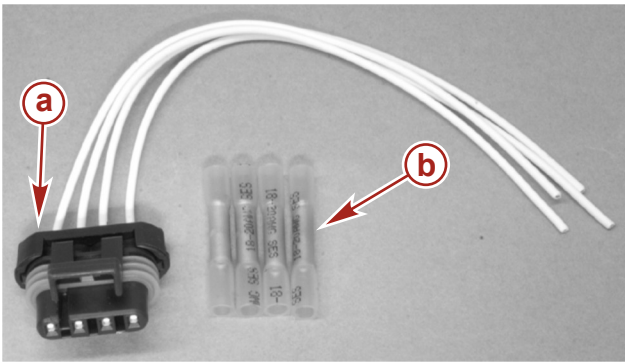
NOTE: The engine wiring harness connection repair kit listed in this service bulletin may also fit some older EFI, and some carburetor models and maybe used for out of warranty repairs also.

879346A32		Where Used	
		Temperature sensors digital coolant CAN 2 terminator exhaust manifold coolant sensor (EMCT), 3.0 Liter temperature switch, 3.0 Liter fuel pump	
Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

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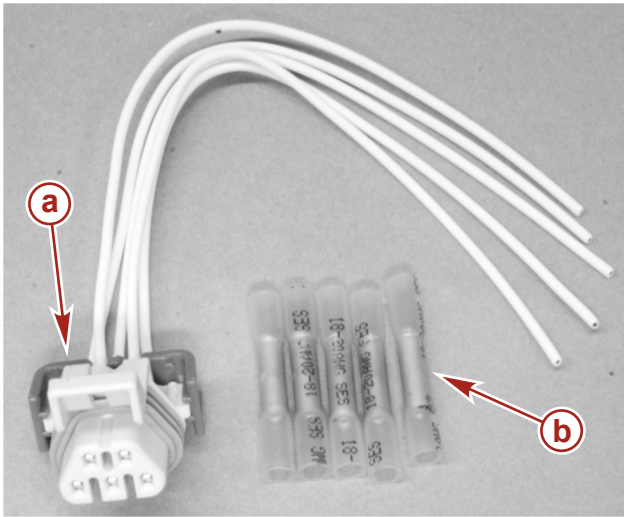
879346A35			
 <p style="text-align: right;">44971</p>		Where Used	
		<p>8.2 Liter MAP sensor All three wire sensors</p>	
Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

879346A36			
 <p style="text-align: right;">43169</p>		Where Used	
		<p>Depth/diagnostics connector</p>	
Ref.	Description	Qty.	Part Number
a	4 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	4	86-8M0045338

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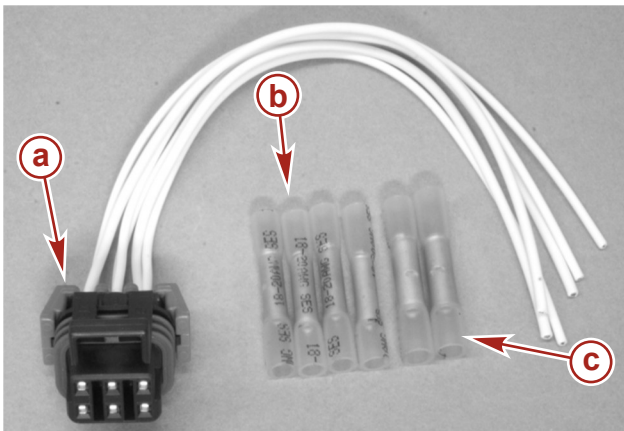
43170

Where Used

All DTS MCM shift actuator

Ref.	Description	Qty.	Part Number
a	5 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	5	86-8M0045338

879346A38



43171

Where Used

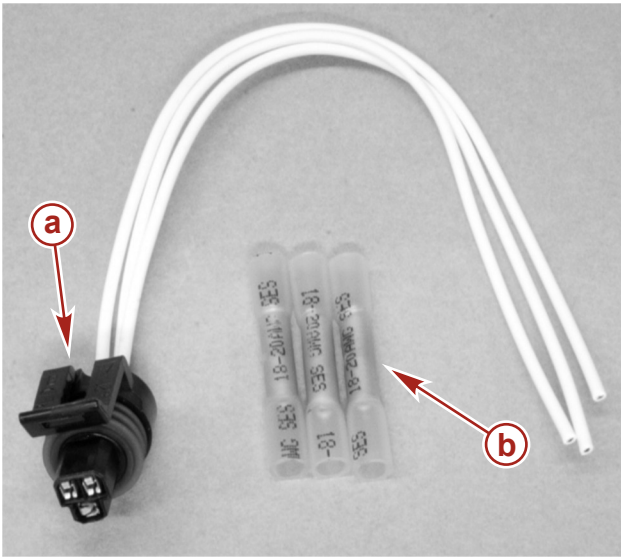
Paddlewheel/fuel SmartCraft boat harness

Ref.	Description	Qty.	Part Number
a	6 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	4	86-8M0045338
c	Crimp splice 16-14 AWG	2	86-896711T

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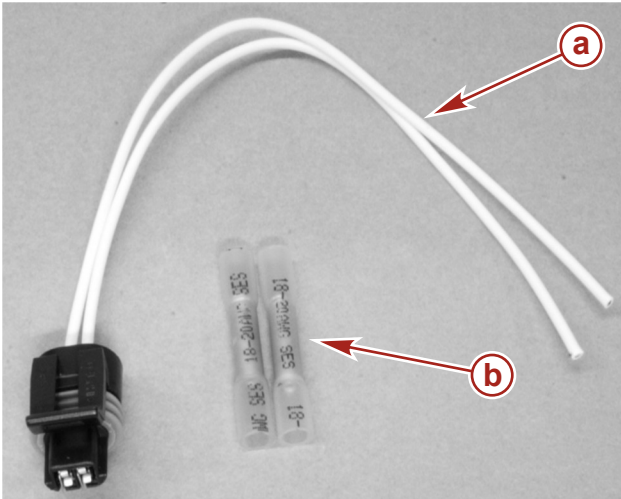
43172

Where Used

Pitot pressure, block water pressure, oil pressure, throttle position sensor (TPS) mechanical

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

879346A40



44970

Where Used

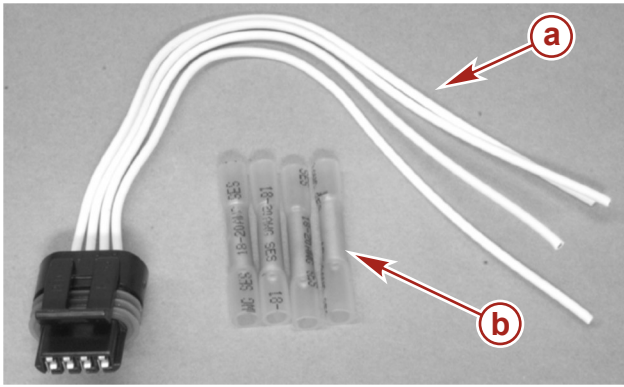
Alternator excitation/digital coolant
3.0 Liter distributor

Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

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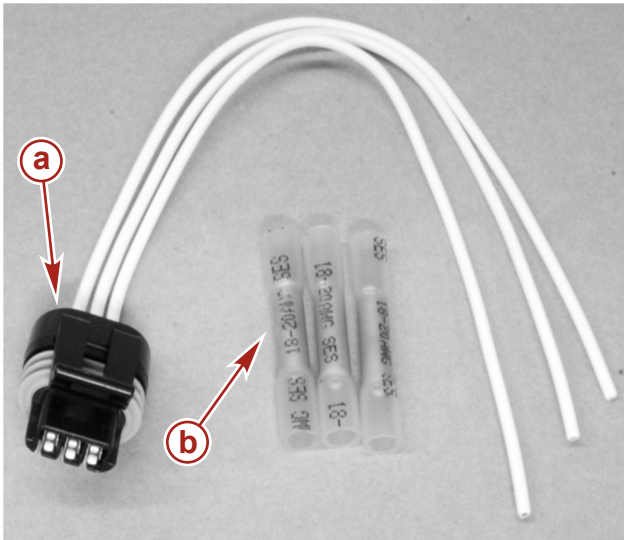
44978

Where Used

4.3, 5.0/5.7 and 6.2 Liter ignition coil driver

Ref.	Description	Qty.	Part Number
a	4 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	4	86-8M0045338

879346A41



43173

Where Used

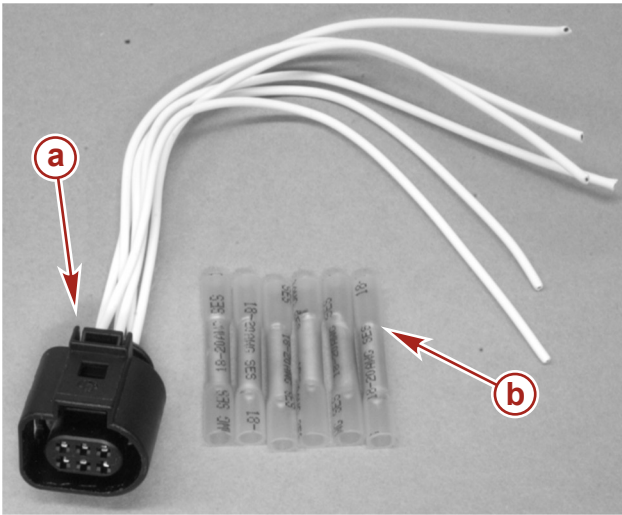
8.2 Liter cam position sensor

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

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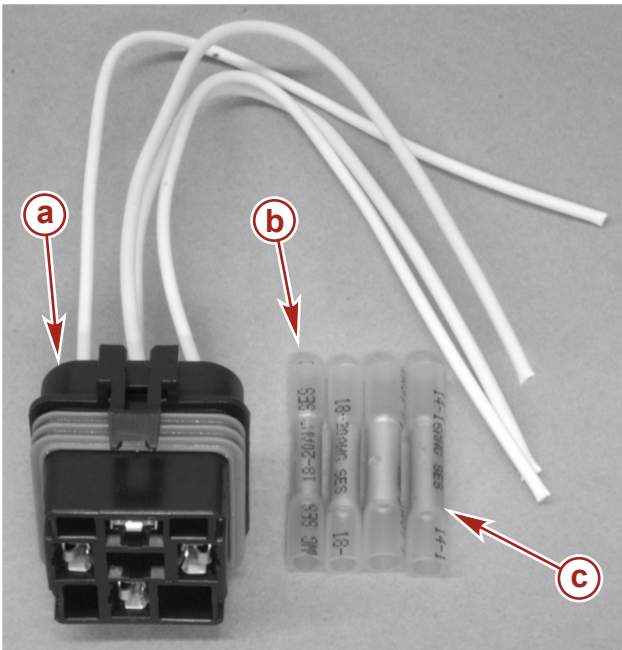
43175

Where Used

All DTS electronic throttle control (ETC)

Ref.	Description	Qty.	Part Number
a	6 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	6	86-8M0045338

879346A48



43181

Where Used

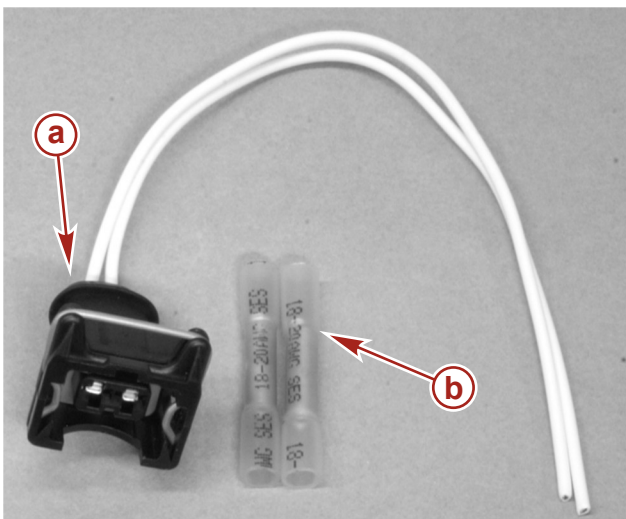
Main power relay
 Fuel pump relay
 All trim relay
 Starter relay

Ref.	Description	Qty.	Part Number
a	Relay base repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338
c	Crimp splice 16-14 AWG	2	86-896711T

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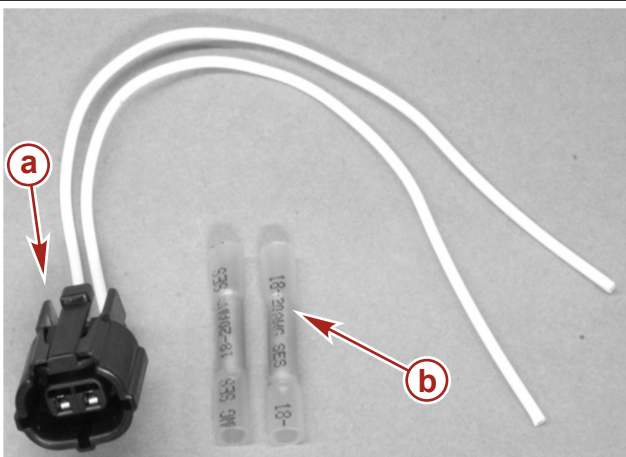
43182

Where Used

8.2 Liter, 3.0 Liter fuel injector

Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

879346A52



43183

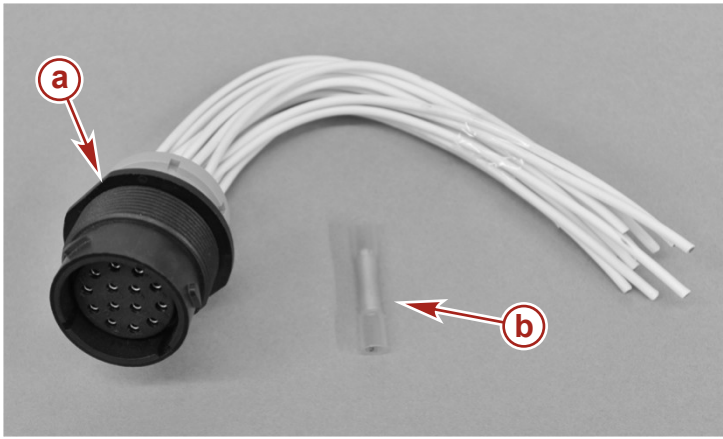
Where Used

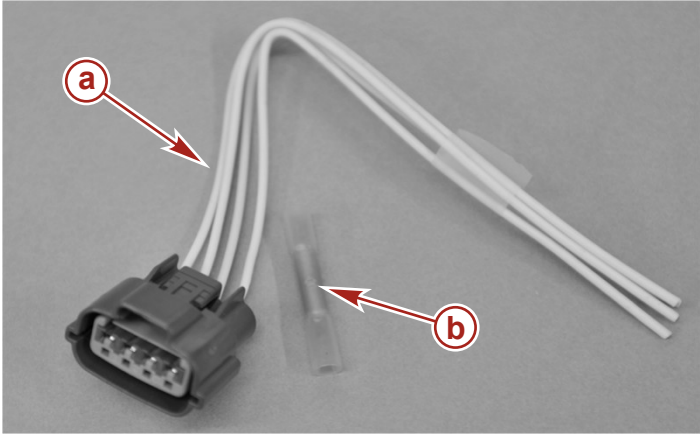
3.0 Liter crankshaft position sensor (CPS)

Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

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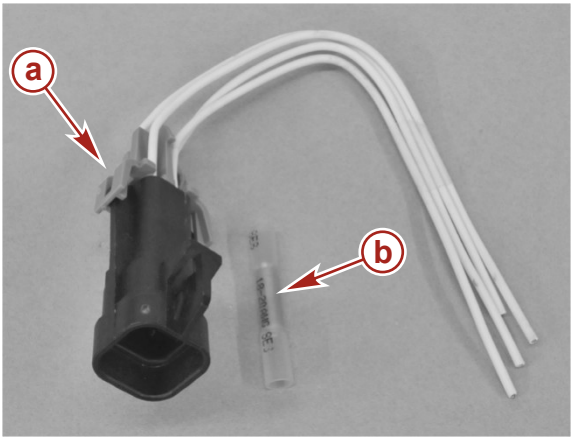
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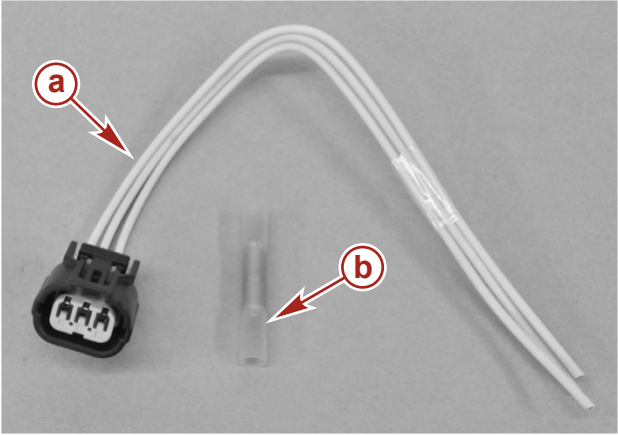
8M0062009			
 <p style="text-align: right;">50808</p>		Where Used	
		3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter - 14 pin	
Ref.	Description	Qty.	Part Number
a	14 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	14	86-896711T

8M0062010			
 <p style="text-align: right;">50812</p>		Where Used	
		3.0 Liter - Temperature and manifold absolute pressure sensor (TMAP)	
Ref.	Description	Qty.	Part Number
a	4 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	4	86-896711T

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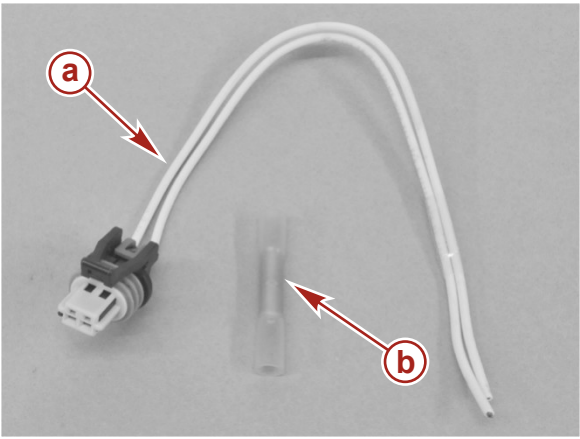
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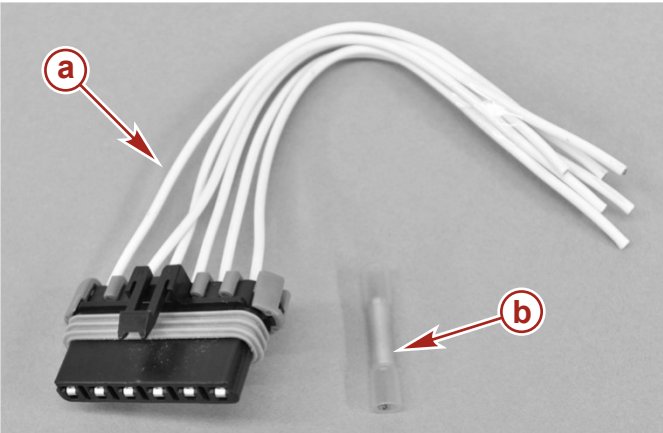
8M0062011			
		Where Used	
		3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter- O2 sensor (post O2 catalyst and pre O2 catalyst)	
Ref.	Description	Qty.	Part Number
a	4 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	4	86-8M0045338

8M0062012			
		Where Used	
		4.3 Liter - Crankshaft position sensor (CPS)	
Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	3	86-896711T

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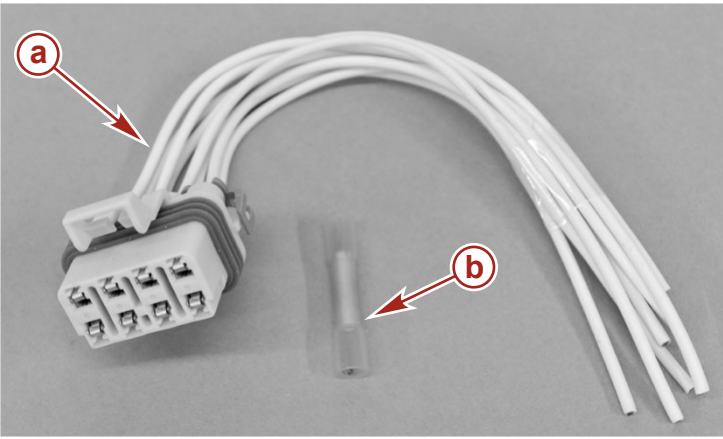
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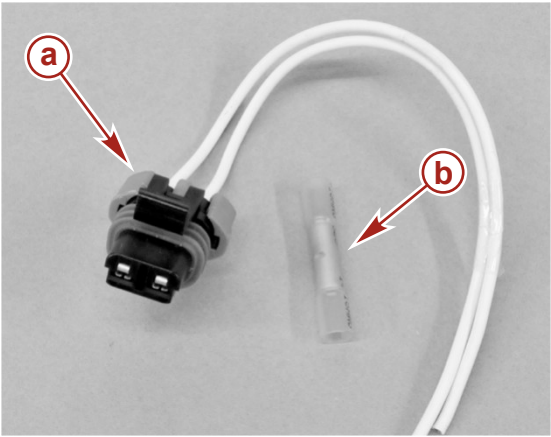
8M0062013			
		Where Used	
		8.2 Liter - Manifold air temperature (MAT) sensor	
Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	2	86-896711T

8M0062015			
		Where Used	
		3.0 Liter - O2 mini fuses	
Ref.	Description	Qty.	Part Number
a	6 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	6	86-896711T

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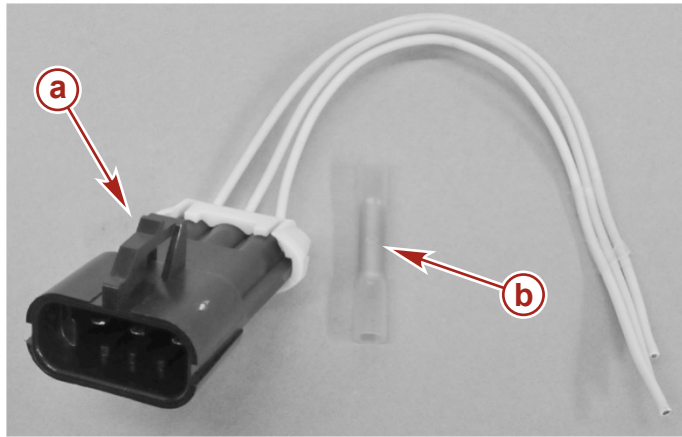
8M0062016			
		Where Used	
		4.3, 5.0, 5.7, 6.2, 8.2 Liter - Engine mini fuses	
Ref.	Description	Qty.	Part Number
a	8 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	8	86-896711T

8M0062017			
		Where Used	
		3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter - Cool fuel, fuel pump, 20 amp fuse, 2 amp fuse gear position	
Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	2	86-896711T

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8M0062018



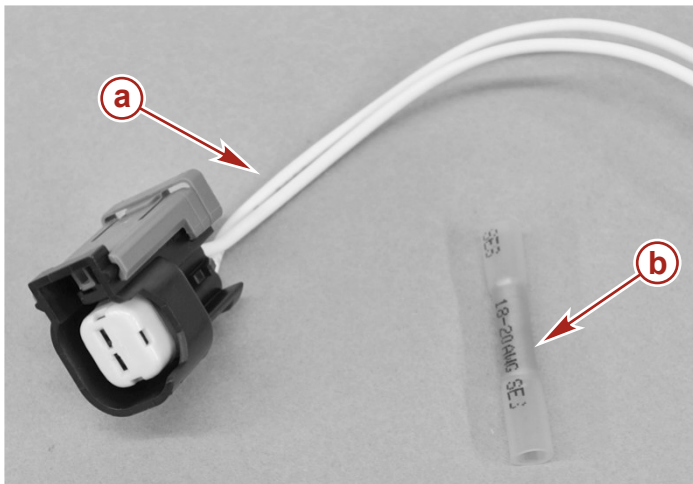
50832

Where Used

3.0, 4.3 Liter - Neutral safety, shift interrupt

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	3	86-896711T

8M0062019



50833

Where Used

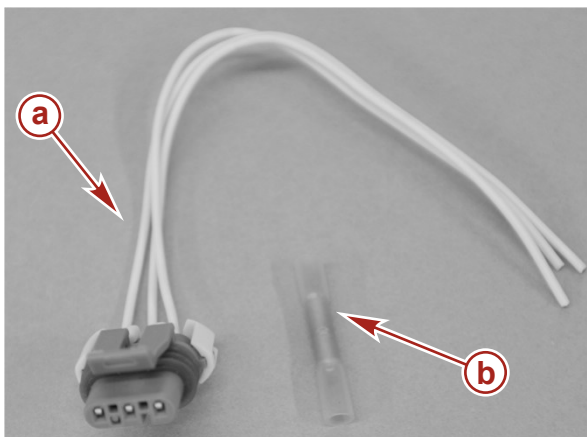
4.3, 5.0, 5.7, 6.2 Liter MPI engines, small block - fuel injector

Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

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8M0062020



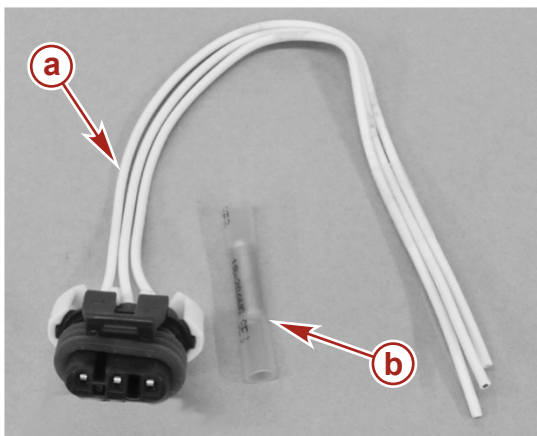
50834

Where Used

4.3, 5.0, 5.7, 6.2 Liter MPI engines - ignition coil

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	3	86-896711T

8M0062021



50835

Where Used

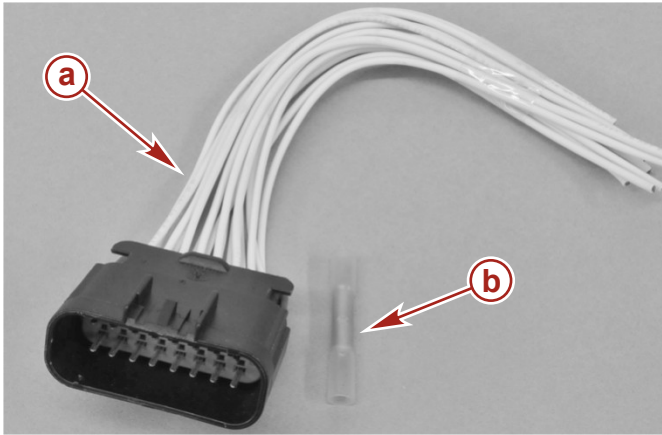
5.0, 5.7, 6.2, 8.2 Liter - Crankshaft position sensor

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

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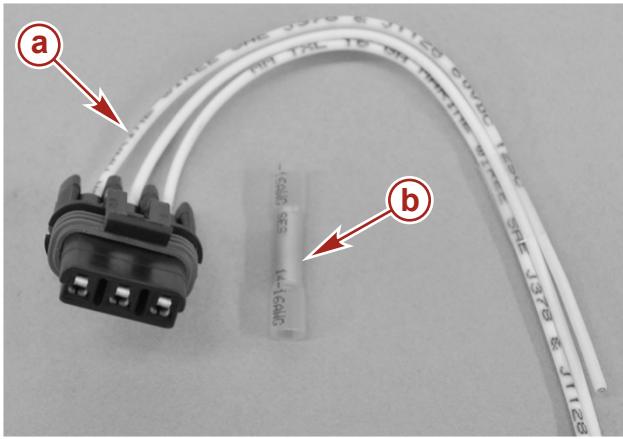
8M0062022			
		Where Used	
		4.3, 5.0, 5.7, 6.2 Liter MPI engines - TMAP sensor	
Ref.	Description	Qty.	Part Number
a	8 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	4	86-896711T

8M0062023			
		Where Used	
		3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter MPI engines - transom	
Ref.	Description	Qty.	Part Number
a	16 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	16	86-896711T

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8M0062024



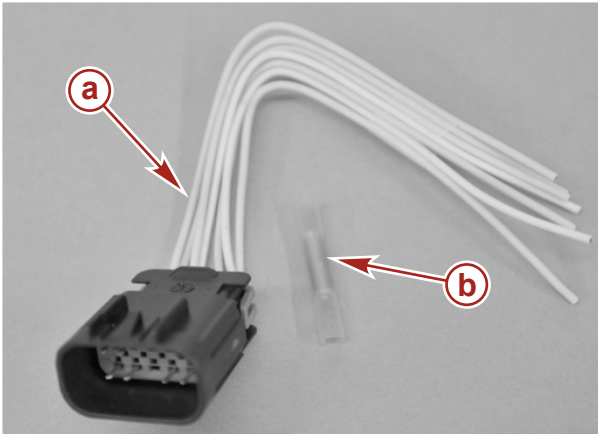
50838

Where Used

3.0 Liter TKS engines - Oil pressure switch

Ref.	Description	Qty.	Part Number
a	3 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

8M0062025



50839

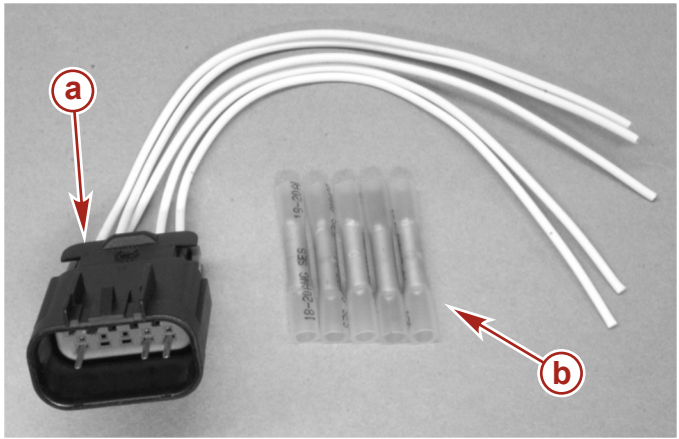
Where Used

3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter, 8.2 (all DTS) - CAN 1 (P) and CAN (H) resistors

Ref.	Description	Qty.	Part Number
a	10 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	7	86-896711T

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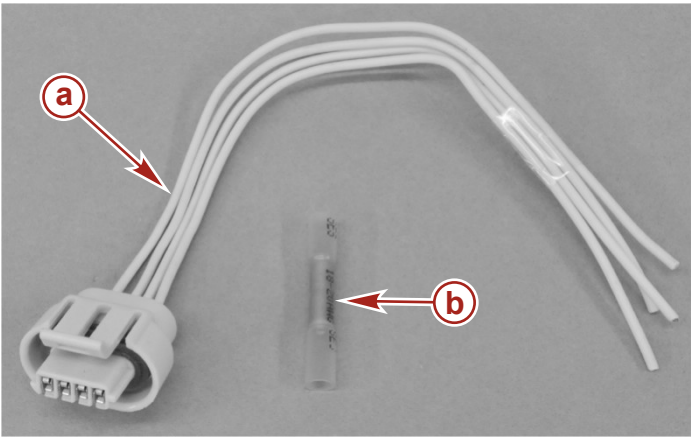
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879346A31			
 <p style="text-align: right;">43160</p>		Where Used	
		CAN 1 terminator	
Ref.	Description	Qty.	Part Number
a	10 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	5	86-8M0045338

8M0062026			
 <p style="text-align: right;">50840</p>		Where Used	
		3.0, 4.3, 5.0, 5.7, 6.2, 8.2 Liter mechanical - IAC	
Ref.	Description	Qty.	Part Number
a	2 pin repair harness	1	NSS
b	Crimp splice 16-14 AWG	2	86-896711T

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8M0062027			
		Where Used	
		8.2 Liter mechanical - Coil port/starboard	
Ref.	Description	Qty.	Part Number
a	4 pin repair harness	1	NSS
b	Crimp splice 22-18 AWG	4	86-8M0045338

Warranty

United States and Canada: Mercury Marine will credit the dealer for the cost of labor and parts.

Submit a warranty claim through your normal warranty-processing channel, listing:

- MerCruiser engine serial number
- Labor: 0.40 hour
- Flat rate code: ME99
- Part code: 331
- Failure code: 00

Outside the United States and Canada: Follow instructions issued by your local office or by your distributor.

Old parts:

- **United States and Canada:** Scrap
- **Outside the United States and Canada:** Follow instructions issued by your local office or by your distributor.

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