MERCURY MARINER

Service Bulletin

Bulletin No. 2010-07

Circulate to: ☐ Sales Manager ☐ Accounting ☑ Service Manager ☑ Technician ☑ Parts Manager

Engine Wiring Harness Repair Kits - 75/90/115 EFI (FourStroke) and 1.5L, 2.5L, 3.0L OptiMax

Models Affected

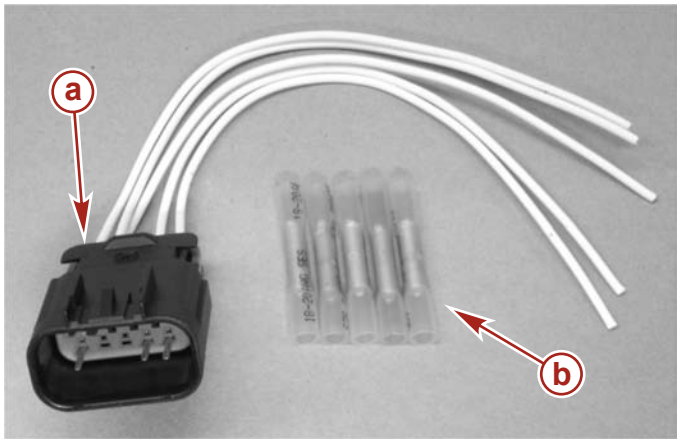
Models Covered	Serial Number
75–115 EFI (FourStroke)	1B366823 and above
1.5L OptiMax	All
2.5L OptiMax	All
3.0L OptiMax	All

Situation

This service bulletin releases the engine wiring harness repair kits available for the above listed models. These kits are to be used for the warranty repair of engine wiring harnesses and are an economical option for a nonwarrantable repair. These kits are intended to eliminate the unnecessary replacement of complete engine wiring harnesses.

NOTE: *Installation instructions are included with each harness repair kit.*

879346A31 CAN 1 Harness Repair Kit (10 Pin)



43160

Where Used

75–115 EFI (FourStroke): CAN 1 terminator
OptiMax: CAN 1 terminator

Ref.	Description	Qty.	Part Number
a	CAN 1 repair harness (10 pin)	1	NSS
b	Crimp splice 22-18 AWG	5	86-8M0045338

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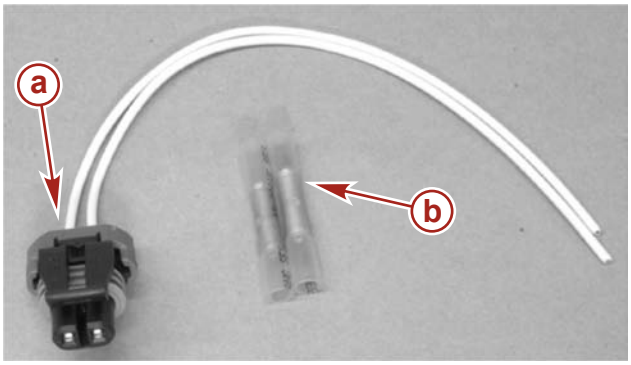
879346A32 Packard Repair Kit (2 Pin), Black



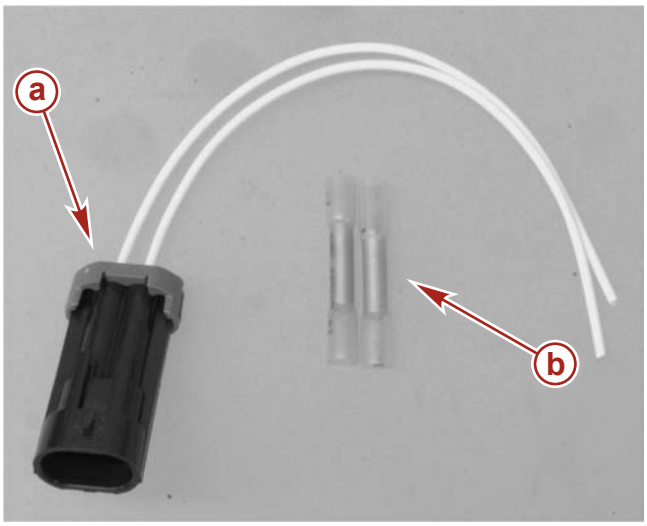
43166

Where Used

75–115 EFI (FourStroke): Temperature sensors, vent canister switch, vent canister purge valve, neutral switch, trim relay harness
OptiMax: Neutral switch, temperature sensors, fuel pump (IVST), CAN 2 terminator

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

8M0050324 Packard Repair Kit (2 Pin)



45094

Where Used

OptiMax: DTS Power Harness

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

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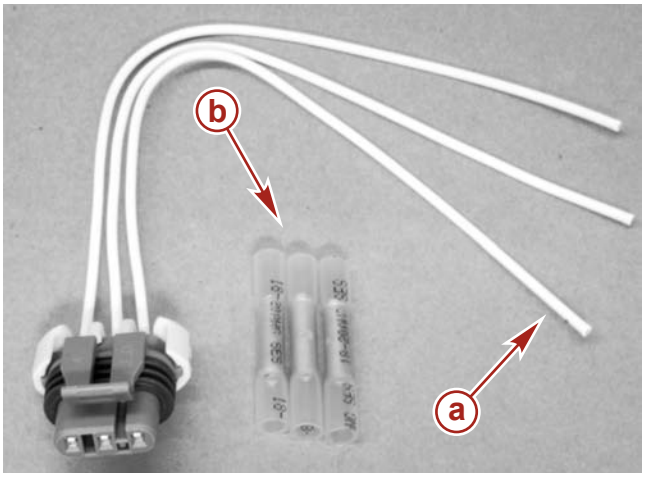
879346A35 Packard Repair Kit (3 Pin), Gray



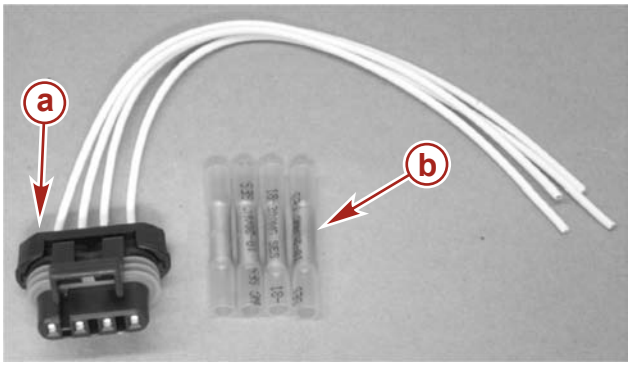
44971

Where Used

75–115 EFI (FourStroke): MAP sensor
OptiMax: MAP sensor

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

879346A36 Packard Repair Kit (4 Pin)



43169

Where Used

75–115 EFI (FourStroke): Diagnostics connector
OptiMax: Diagnostics connector

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

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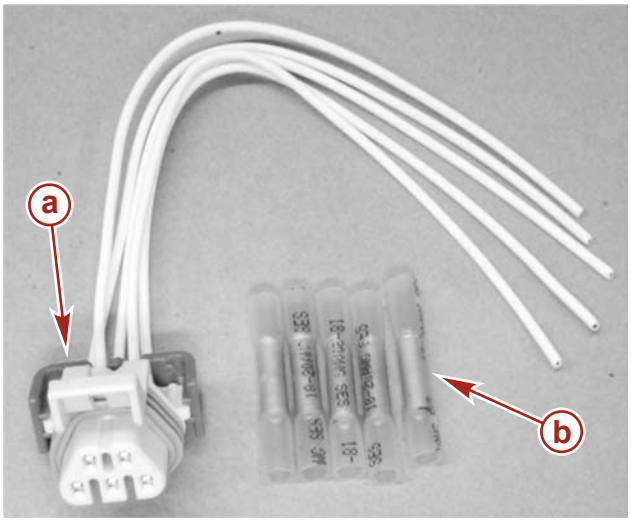
879346A37 Packard Repair Kit (5 Pin)



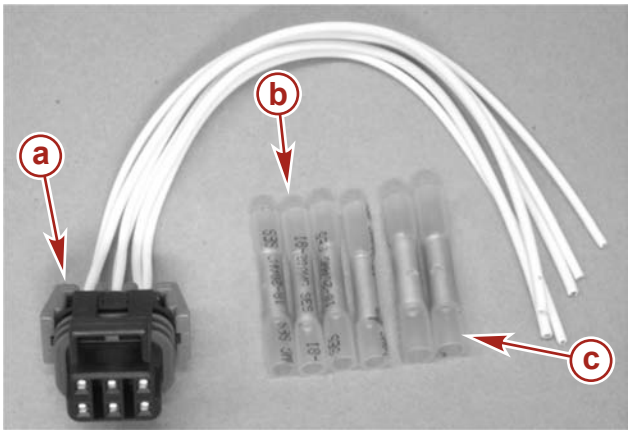
43170

Where Used

OptiMax DTS: Shift actuator

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

879346A38 Packard Repair Kit (6 Pin)



43171

Where Used

75–115 EFI (FourStroke): SmartCraft boat harness, FSM harness
OptiMax: SmartCraft boat harness

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

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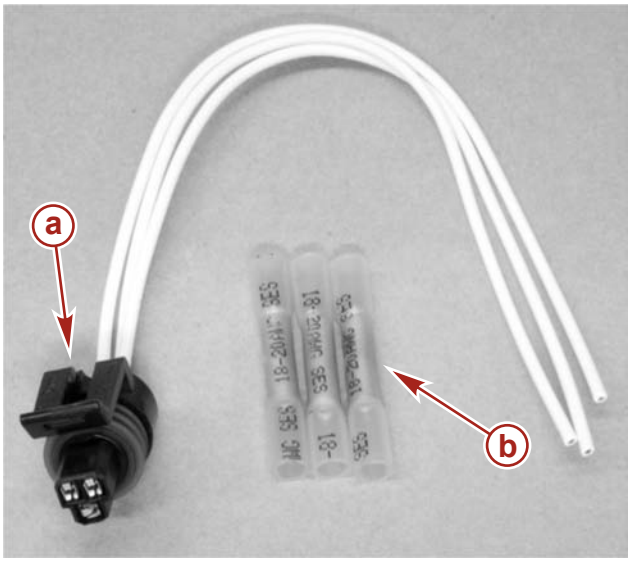
879346A39 Packard Repair Kit (3 Pin), Round



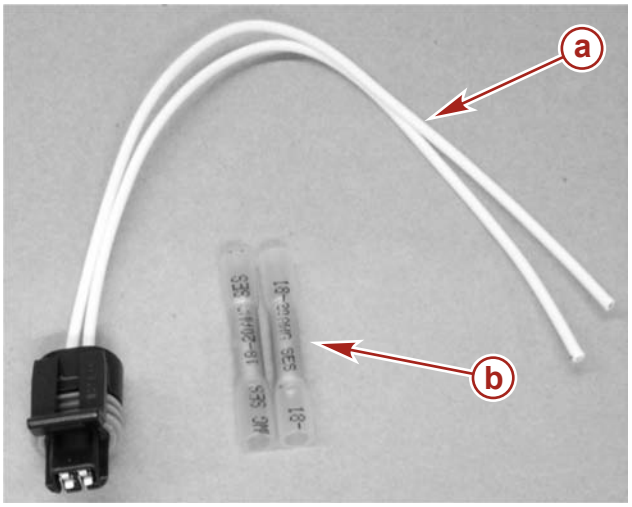
43172

Where Used

75–115 EFI (FourStroke): MAP, pitot pressure, block water pressure, oil pressure, throttle position sensor (TPS)
OptiMax: Block water pressure, pitot pressure

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

879346A40 Ignition Coil Driver Repair Kit (2 Pin)



44970

Where Used

OptiMax: Ignition coil driver

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

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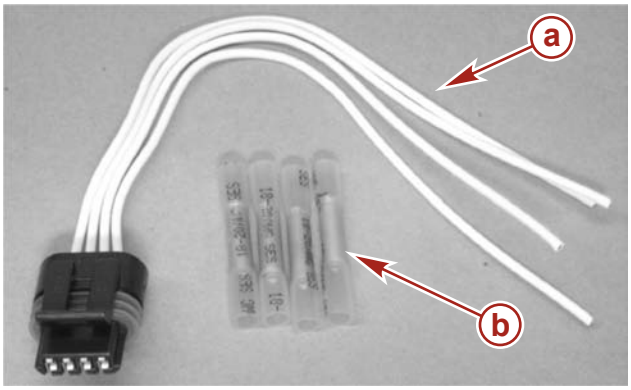
879346A42 Delphi Repair Kit (4 Pin)

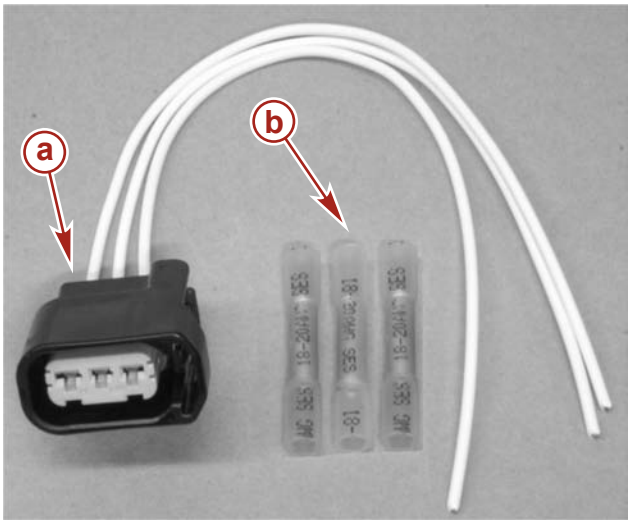


44978

Where Used
OptiMax: Ignition coil driver

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

879346A46 Pencil Coil Repair Kit (3 Pin)



43179

Where Used
75–115 EFI (FourStroke): Pencil coil

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

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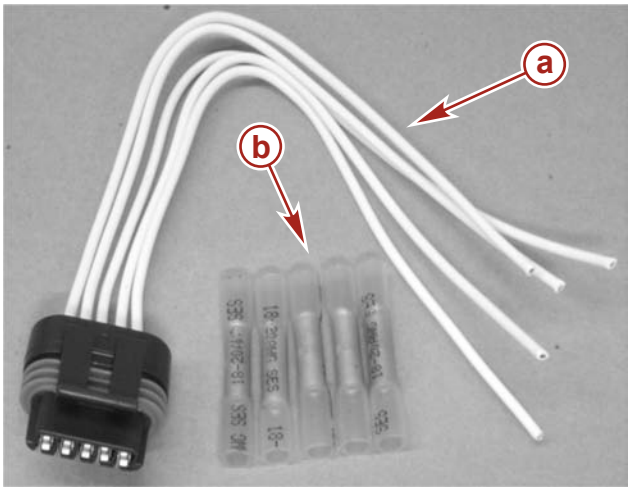
879346A51 Ignition Coil Repair Kit (5 Pin)

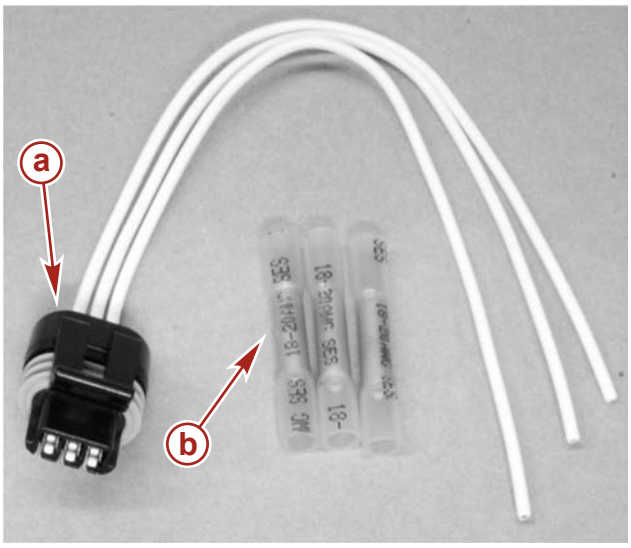


44980

Where Used
OptiMax: Ignition coil

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

879346A41 Delphi Repair Kit (3 Pin)



43173

Where Used
75–115 EFI (FourStroke): Cam position sensor OptiMax: Ignition coil, throttle position sensor

Ref.	Description	Qty.	Part Number
a	Delphi repair harness (2 pin)	1	NSS
b	Crimp splice 22-18 AWG	3	86-8M0045338

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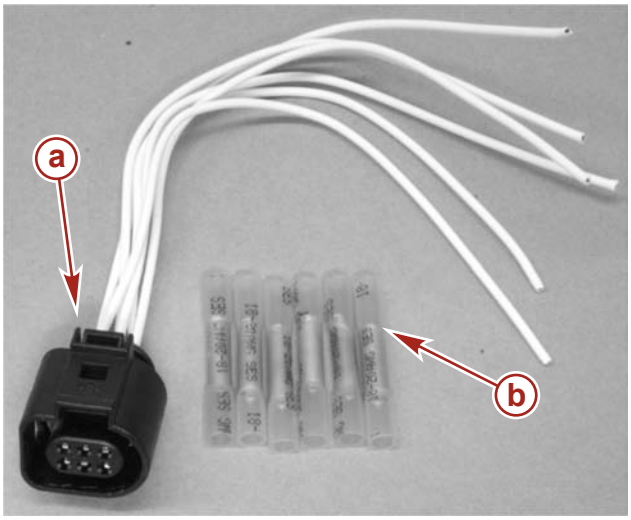
879346A44 Electronic Throttle Control (ETC) Repair Kit (6 Pin)



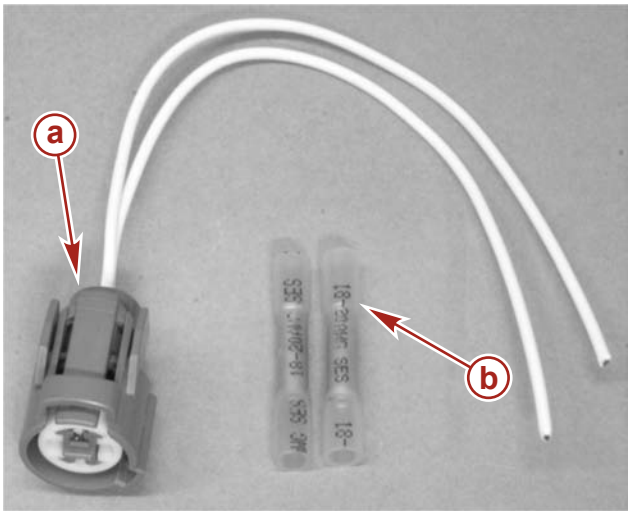
43175

Where Used

OptiMax: Electronic throttle control (ETC)

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

879346A45 Manifold Air Temperature (MAT) Repair Kit (2 Pin)



43177

Where Used

75–115 EFI (FourStroke): MAT sensor

Ref.	Description	Qty.	Part Number
a	Manifold air temperature (MAT) repair harness (2 pin)	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

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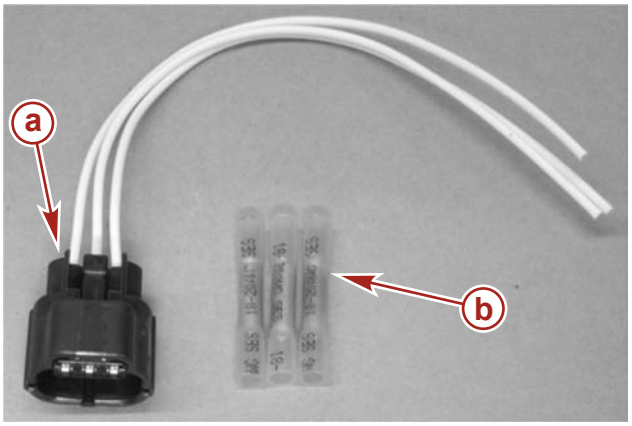
879346A47 Cowl Tilt Switch Repair Kit (3 Pin)



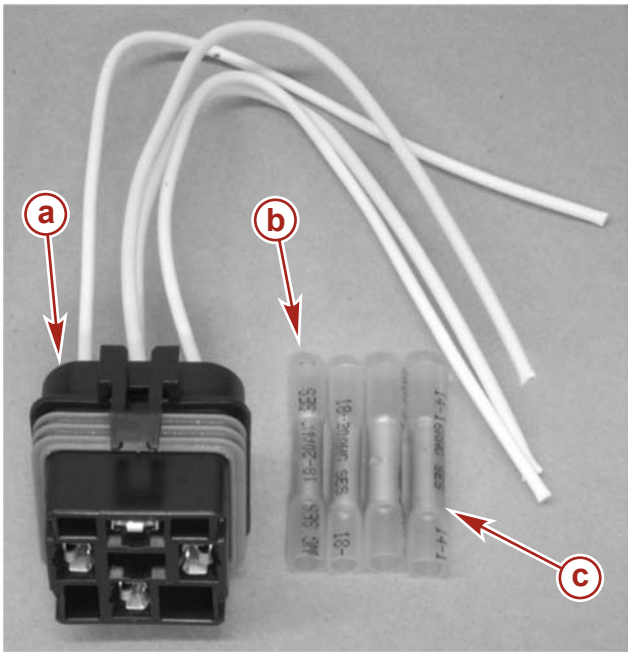
43180

Where Used

75–115 EFI (FourStroke): Cowl tilt switch
OptiMax: Cowl tilt switch

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

879346A48 Relay Base Repair Kit (White)



43181

Where Used

75–115 EFI (FourStroke): Main power relay
OptiMax: Main power relay

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

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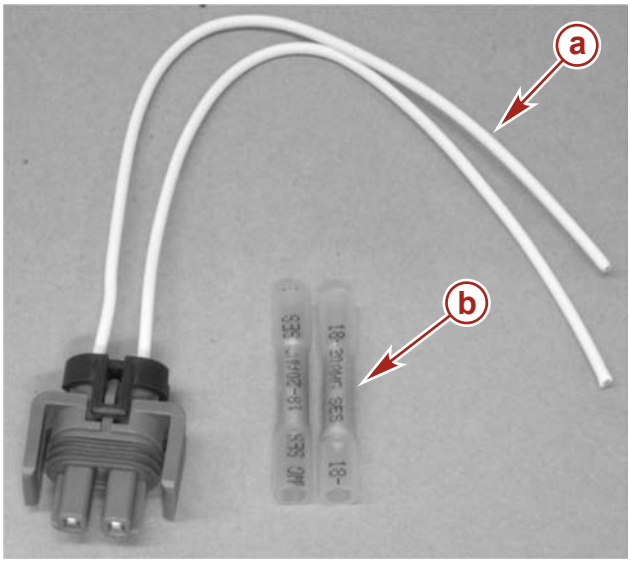
879346A49 Direct Injector Harness Repair Kit



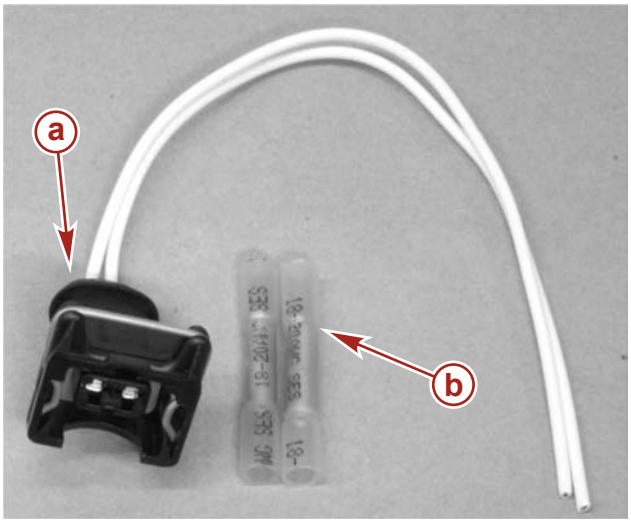
44979

Where Used

OptiMax: Direct injector

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

879346A50 Fuel Injector Harness Repair Kit



43182

Where Used

75–115 EFI (FourStroke): Fuel injector
OptiMax: Fuel injector

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

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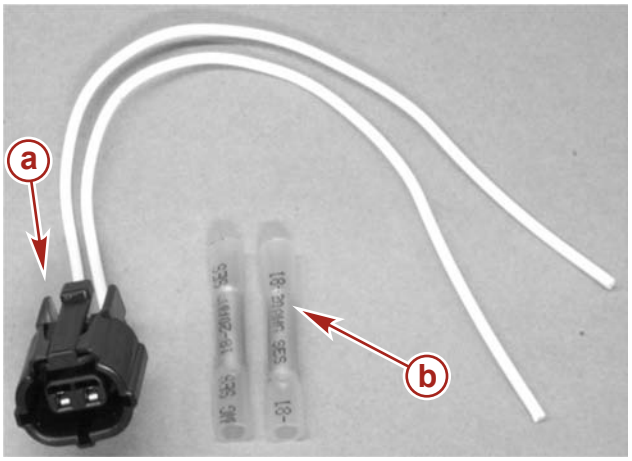
879346A52 Crankshaft Position Sensor (CPS) Repair Kit (2 Pin)



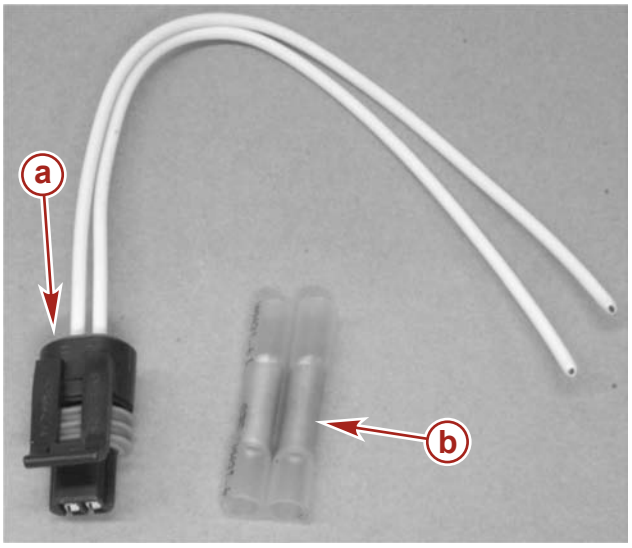
43183

Where Used

75–115 EFI (FourStroke): Crankshaft position sensor (CPS)
OptiMax: Crankshaft position sensor (CPS)

Ref.	Description	Qty.	Part Number
a	Crankshaft position sensor (CPS) repair harness (2 pin)	1	NSS
b	Crimp splice 22-18 AWG	2	86-8M0045338

879346A53 Alternator Repair Kit (2 Pin)



43184

Where Used

75–115 EFI (FourStroke): Alternator
OptiMax: Alternator

Ref.	Description	Qty.	Part Number
a	Alternator repair harness (2 pin)	1	NSS
b	Crimp splice 16-14 AWG	2	86-896711T

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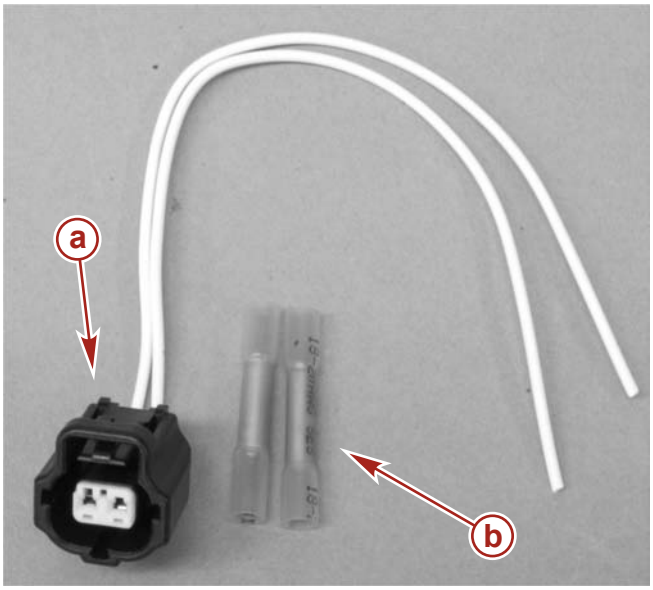
8M0050085 Amp Repair Kit (2 Pin)



45095

Where Used

75–115 EFI (FourStroke): Idle air control (IAC)

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

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