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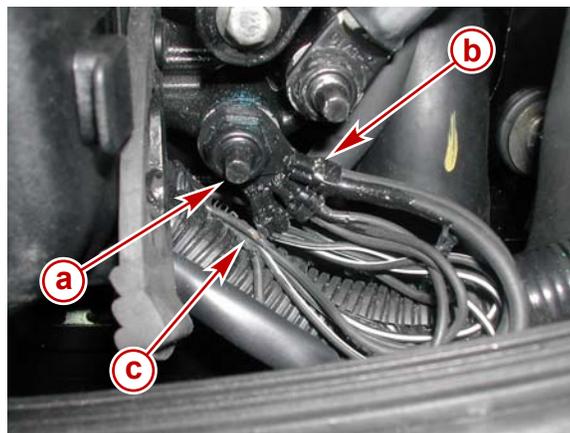
Engine Wiring Harness Chafing – 200/225/250/275 Verado

Models Affected

Models Covered	Serial Number
200/225/250/275 Verado	1B390142 and Below
EU 200/225/250/275 Verado	0P468636 and Below

Situation

Mercury Marine has identified a potential engine wiring harness chafing issue located on the starboard side of the engine near the lower forward corner of the electrical box. As the ground wire ring terminals are secured with the grounding stud locknut, the terminals can fan out toward the engine wiring harness conduit. Wires protruding out of the conduit slit at this location can become chafed by the wire crimped portion of the ground wire ring terminal and be shorted to ground. Depending on the wires shorted, an engine system failure and/or an engine guardian fault may occur. Mercury Marine has changed the orientation of the described ground wire ring terminals and corrected this issue.



25711

- a** - Ground stud
- b** - Crimped end of ring terminal
- c** - Chafed wire

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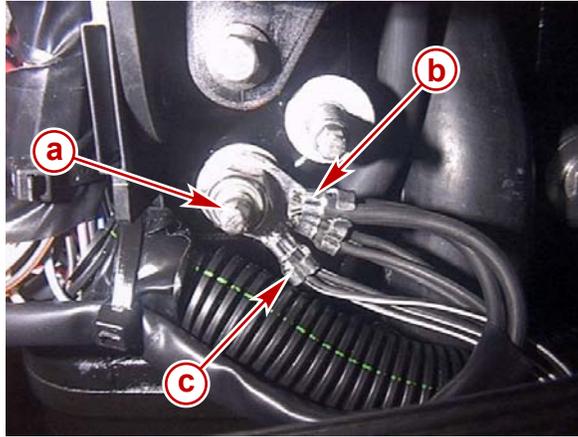
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Troubleshooting/Inspection

IMPORTANT: Prior to performing in-depth troubleshooting procedures on these affected outboards, examine the engine wiring harness condition around the ground stud location. Repair any damaged wires or replace the engine wiring harness as required.

Correction

1. Remove the locknut securing the three ground lead ring terminals to the ground stud.



25712

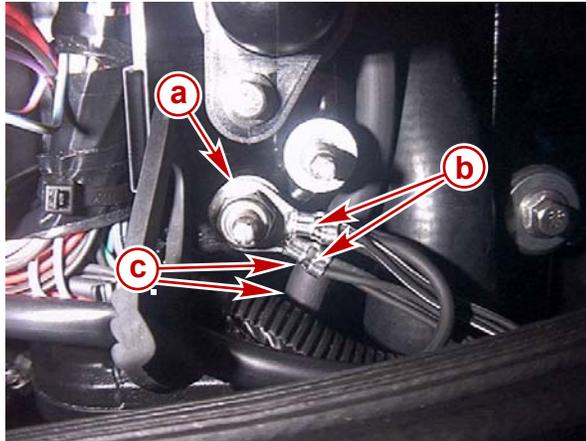
- a - Ground stud/locknut
- b - Ground lead ring terminals
- c - Ring terminal crimp too close to wiring harness

2. Clean the neoprene protective coating from the ring terminals, ground stud, locknut, and the contact surface of the cylinder block mounting boss.
3. Reposition the ring terminals:
 - Heavy terminal should be installed first with the crimp toward the engine.
 - Two remaining terminals should be installed with the crimps facing away from the engine.
4. Stack and position the ring terminals to provide clearance from the engine wiring harness. Hold the ground wire terminals in this position and secure the connections with the locknut.

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Description	Nm	lb. in.	lb. ft.
Locknut (M8)	17	150	



25713

- a** - Heavy terminal - Crimp toward engine (positioned behind outer terminals)
- b** - Two remaining terminals - Crimp away from engine
- c** - Clearance between crimps and harness

5. Coat the ground wire connection with Liquid Neoprene.

Tube Ref No.	Description	Where Used	Part No.
 25	Liquid Neoprene	Ground wire connection	92-25711-3

Parts Required – Engine Wiring Harness Replacement Only

Qty.	Description	Part Number
1 -or-	Engine wiring harness (USA S/N 0T980000 through 1B226999)	84-880616T04
1 -or-	Engine wiring harness (USA S/N 1B227000 through 1B381711) (Belgium S/N 0P409357 through 0P464487)	84-880616T05
1 -or-	Engine wiring harness (USA S/N 1B381712 through 1B390142) (Belgium S/N 0P464488 through 0P468636)	84-880616T06

Dealer Outboard Inventory

Affected outboards in dealer inventory should have the orientation of the ground wire ring terminals inspected and/or corrected prior to customer delivery. Outboards brought in for other service work may also be inspected and/or corrected as required.

Warranty

Mercury Marine will credit the dealer for the cost of parts and labor. Complete a warranty claim listing:

- Outboard serial number

FOR INSPECTION, CORRECTION, AND/OR WIRE REPAIR

- 0.5 hour labor

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- Warranty Flat Rate Code: SB05
- Part Code: 331
- Failure Code: 00

FOR INSPECTION, CORRECTION, AND WIRING HARNESS REPLACEMENT

- 2.0 hours labor
- Warranty Flat Rate Code: SB20
- Part Code: 331
- Failure Code: 00

US and Canada

Complete/process the claim via MercNET or return a warranty claim form.

International

Follow instructions issued by Marine Power International office or by an authorized Marine Power Distributor.

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