

# Technical BULLETIN

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2007: PZ50GT (8GK), PZ50FX (8GN), PZ50M (8GP), PZ50VT (8GJ)  
2008: PZ50 (8GC), PZ50GT (8GK), PZ50RT (8GN), PZ50MT (8GP), PZ50VT (8GJ)  
2009: PZ50 (8GC), PZ50GT (8GK), PZ50RT (8GN), PZ50MT (8GP), PZ50VT (8GJ)  
Ground Failure at Joint Connector

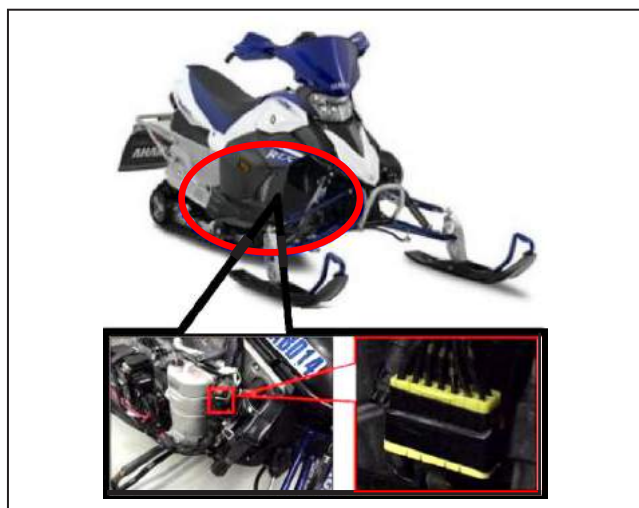
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### INTRODUCTION

**Symptom:** The engine does not start.

**Cause:** Ground wires for multiple circuits are routed to a single 14-pin connector. In some conditions, the current in the wires may generate enough heat to damage the connector and cause an open in one or more ground circuits, resulting in a no-start situation.

**Remedy:** The installation of a ground wire sub-harness will distribute the current to a greater number of wires and reduce heat levels at the connector.



### DEALER ACTION SUMMARY

**Modify:** Install this ground wire sub-harness on all affected units. Inspect the stock yellow connector and wires before installing the new sub-harness.

**If two or more connector ground wires are damaged or if the yellow connector is damaged to the point where disassembly is impossible, contact your Regional Technical Advisor (RTA) for further instructions.**

#### Sold

**Units:** Please contact your customers to arrange for a convenient time to have this free service performed. Then, install this ground line sub-harness.

#### Unsold

**Units:** During Pre-delivery Inspection (PDI), install this ground line sub-harness on affected units.

#### Parts

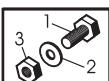
**Required:** Yes. Order one ground wire sub-harness (PZ50 SUB-HARNESS KIT).

**Warranty:** Submit a Service-Per-Bulletin (90 Code) Warranty Request for labor (see *Warranty Information* section for more details).



## AFFECTED RANGE

Year	Model	Model Description	VIN Numbers
2007	PZ50FXWL	Phazer FX (8GN)	8GN-0000541 ~ 5778
2007	PZ50FXWN	Phazer FX (8GN)	8GN-0000601 ~ 4123
2007	PZ50GTWL	Phazer GT (8GK)	8GK-0000259 ~ 4437
2007	PZ50GTWR	Phazer GT (8GK)	8GK-0000304 ~ 4399
2007	PZ50GTWW	Phazer GT (8GK)	8GK-0000349 ~ 4224
2007	PZ50MWW	Phazer Mountain Lite (8GP)	8GP-0000125 ~ 5729
2007	PZ50VTWB	Venture Lite (8GJ)	8GJ-0000051 ~ 2570
2007	PZ50VTWL	Venture Lite (8GJ)	8GJ-0000751 ~ 2539
2008	PZ50XL	Phazer (8GC)	8GC-0002058 ~ 2107
2008	PZ50XW	Phazer (8GC)	8GC-0002108 ~ 2157
2008	PZ50GTXL	Phazer GT (8GK)	8GK-0004902 ~ 5670
2008	PZ50GTXB	Phazer GT (8GK)	8GK-0004852 ~ 5759
2008	PZ50RTXL	Phazer RTX (8GN)	8GN-0006422 ~ 7895
2008	PZ50RTXW	Phazer RTX (8GN)	8GN-0006542 ~ 7923
2008	PZ50MTXL	Phazer MTX (8GP)	8GP-0006179 ~ 9512
2008	PZ50MTXW	Phazer MTX (8GP)	8GP-0006139 ~ 6428
2008	PZ50VTXR	Venture Lite (8GJ)	8GJ-0004107 ~ 5758
2008	PZ50VTXL	Venture Lite (8GJ)	8GJ-0004157 ~ 5723
2009	PZ50GTYR	Phazer GT (8GK)	8GK-0006060 ~ 6566
2009	PZ50MTYO	Phazer MTX (8GP)	8GP-0009742 ~ 11368
2009	PZ50MTYW	Phazer MTX (8GP)	8GP-0009767 ~ 11437
2009	PZ50RTYO	Phazer RTX (8GN)	8GN-0008408 ~ 9214
2009	PZ50RTYW	Phazer RTX (8GN)	8GN-0008498 ~ 9457
2009	PZ50VTYR	Venture Lite (8GJ)	8GJ-0006113 ~ 8056
2009	PZ50VTYS	Venture Lite (8GJ)	8GJ-0006133 ~ 8054
2009	PZ50YO	Phazer (8GC)	8GC-0002369 ~ 2503



## PARTS INFORMATION

Part Number	Description	Qty.
90891-50154-00	PZ50 Sub-Harness Kit	1



## IDENTIFICATION PROCEDURE

If you encounter an unfamiliar unit and you are unsure if the unit has been modified, check for the sub-harness translucent 6-pin connector. If the 6-pin connector is installed, the unit has been modified.

You can check the modification status by checking the Warranty Claims/Unit Status under the Service tab in YDS or by contacting your RTA.

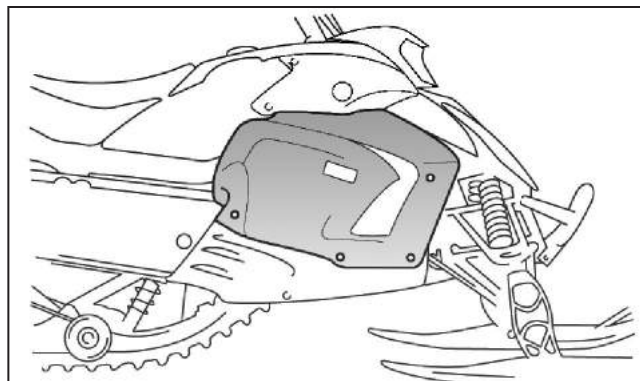




## SERVICE PROCEDURES

1. **For all except PZ50VT:** Remove right side cover.

**For PZ50VT:** Open shroud (not illustrated) and remove upper and lower right side covers.

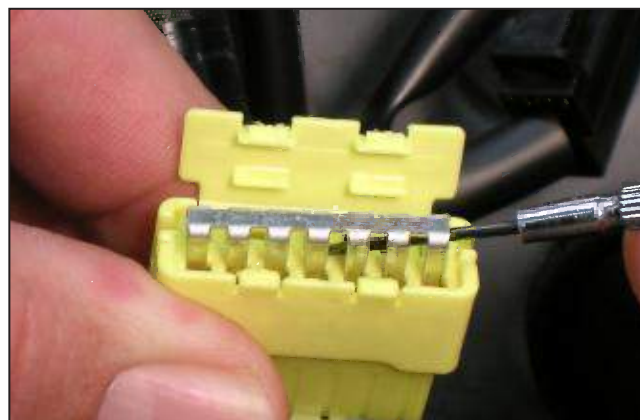
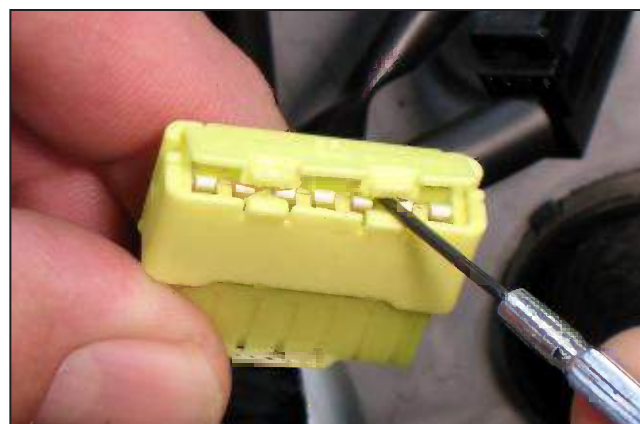


2. Remove the vinyl tape from the 14-pin yellow bus bar connector.
3. Inspect the existing yellow connector and terminals:
  - Unlock the top cover of the yellow connector by using a small screwdriver or equivalent to pry the two tabs.
  - Remove the metal bus bar by prying each end of the bar and lifting the bar out.
  - Closely inspect the inside and outside of the yellow connector for heat related damage.

**If no damage to the connector, proceed to step 4.**

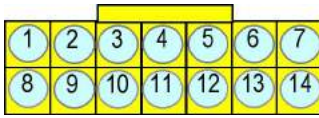
**If the connector is damaged but can still be disassembled and no more than one wire is damaged by heat, proceed to step 7.**

**If two or more ground wires are damaged or if the yellow connector is damaged to the point where disassembly is not possible, contact your RTA for further instructions.**



### No Damage to the Yellow Connector

- If there is no heat damage, remove the top cover of the existing yellow connector by prying the sides of the cover out and up.



- Remove wires #5 and 6 from the existing yellow connector:
  - Pry the locking tab out from the terminal.
  - Pull the wire and terminal out of the yellow connector.

**NOTE:** Wires #5 and 6 will be reinstalled later in the translucent 6-pin connector on the new sub-harness in step 9.

- Remove the two wires from the new yellow connector supplied in the kit and install them in the now empty slots #5 and 6 of the existing yellow connector on the unit. Proceed to step 9.

### Heat Damage to the Yellow Connector or One Wire

- If only the yellow connector is damaged by heat, remove each wire from the original connector and reinstall each one to the same location on the new yellow connector supplied in the kit, except for wires #5 and 6 which will be moved to the translucent 6-pin connector in step 9.



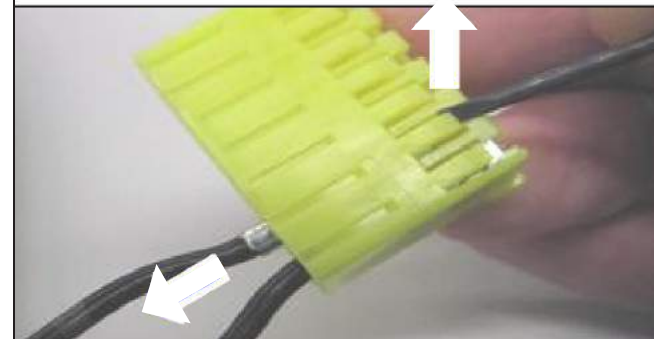
- If there is no wire damage, move wire #7 from the existing yellow connector to slot #5 in the new yellow connector.

**NOTE:** If wire #7 is damaged, cut the wire near the connector terminal and tape off the wire to the main wiring harness. It is not needed with the new sub-harness.

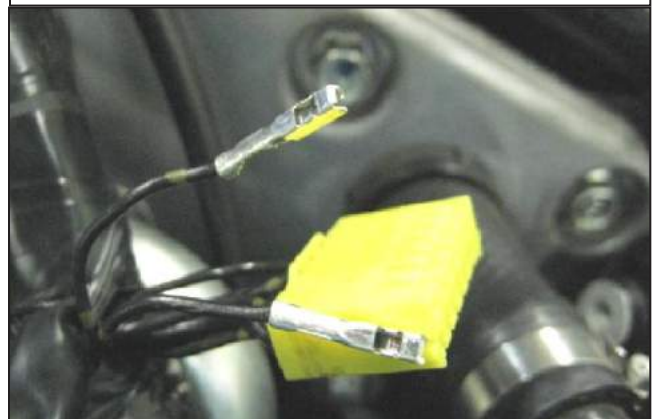
REMOVE TOP COVER.



LIFT UP YELLOW TAB AND PULL WIRE OUT.



MOVE WIRES #5 AND #6 TO 6-PIN CONNECTOR.



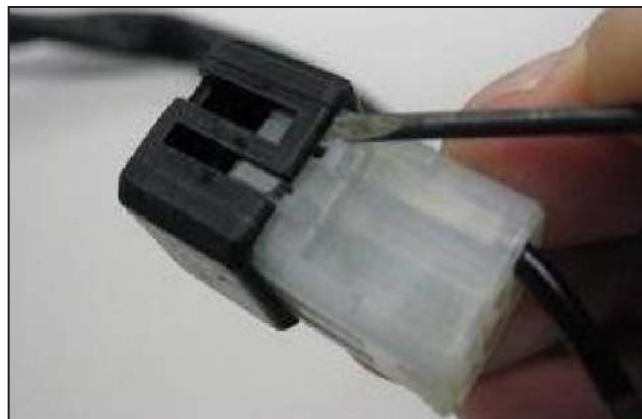




## SERVICE PROCEDURES

9. Connect the wires from #5 and 6 to the translucent 6-pin bus-bar connector:

- Remove the translucent connector black cap.



- Remove the 6-pin bus bar.



- Insert ground wires #5 and 6 from the unit's main harness next to the existing wire in the 6-pin connector.

10. On the 6-pin connector, reinstall the bus bar and then the connector cover.

11. On the 14-pin connector, reinstall the connector cover, then install the bus bar and close the cap.

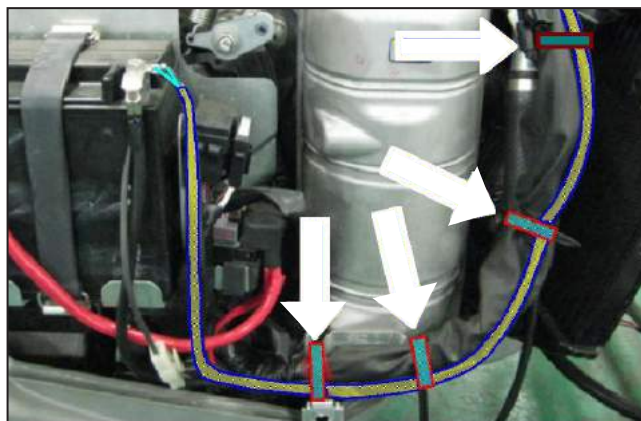
12. Fasten both connectors to the main wiring harness using electrical tape.



### CAUTION:

Ensure both connectors are positioned with the wires pointed down, then tape the sides and the top of the connectors (see adjacent photo).

13. Route the new wire sub-harness using the four existing cable ties, as illustrated.

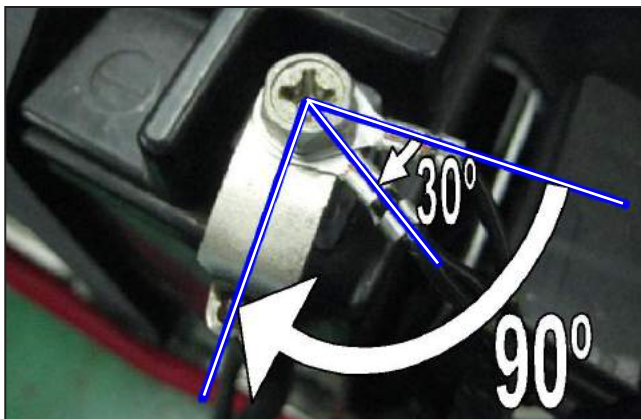


14. Connect the two eyelet connectors to the negative battery terminal as illustrated.



**CAUTION:**

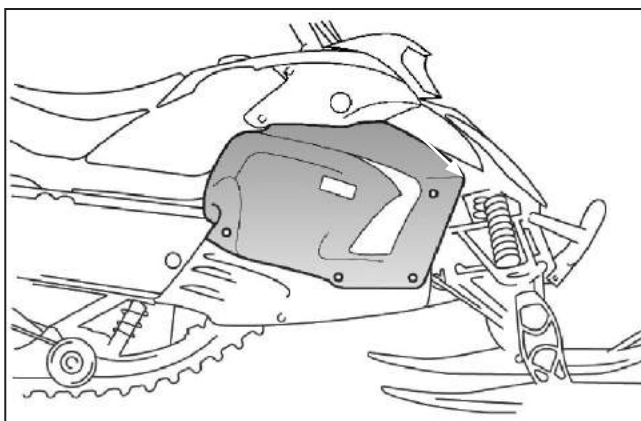
Make sure the wires are positioned on the negative battery terminal as shown in the adjacent photo to ensure a good ground.



15. **For all except PZ50VT:** Reinstall the right side cover.

**For PZ50VT:** Reinstall upper and lower right side covers. Close shroud (not illustrated).

16. Tag and hold any replaced parts for 90 days from the date of request.



**WARRANTY INFORMATION**

Service of all affected units is authorized regardless of warranty status.

To receive credit for parts and labor, select **090UX** from the Problem Code pull down menu in the Yamaha Dealer System (YDS). If submitting a paper warranty claim, use Problem Code **90UX**. The labor allowance for this modification is **0.3** hour.

Tag and hold any replaced parts for 90 days from the date of request.