

GE ZENITH Controls

Replace the Limit Switch Assembly	
Purpose:	To replace a defective Limit Switch Assembly
When:	When directed by a service order.

Required Tools & Equipment:	
Basic electricians hand tools	PPE
Multimeter Digital or Analog	Rubber insulating gloves class 0
Limit Switch	Safety glasses
	Electrical hazard safety shoes


 Danger
HAZARDOUS VOLTAGE Can Cause Severe Injury or Death Ensure before the enclosure is opened, you must lockout all energy sources to the ATS.

Do These Steps:

1. *Obtain* the proper documentation.
2. *Open* the front Enclosure.
3. *Place* the disconnect switch to “Inhibit”.

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4. *Disable* the generator start-up circuit.

 **Danger**

**HAZARDOUS VOLTAGE
Can Cause Severe Injury or Death**

On systems with multiple ATS's connected to a single generator, you must lockout all energy sources to the ATS, before continuing on.

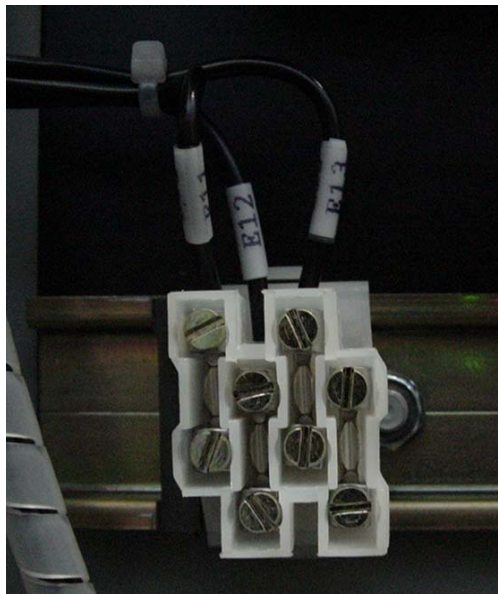


Figure 1.

5. *Disconnect* Main Power
6. *Verify* zero volts across each phase.
7. *Note* the location of the Fast on connections to the SCN/SCE micro switch terminals.
8. *Disconnect* the Fast on connectors.
9. *Remove* the holding screws.
10. *Note:* microswitch designators on insulators.

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11. *Remove the micro switch assembly.*

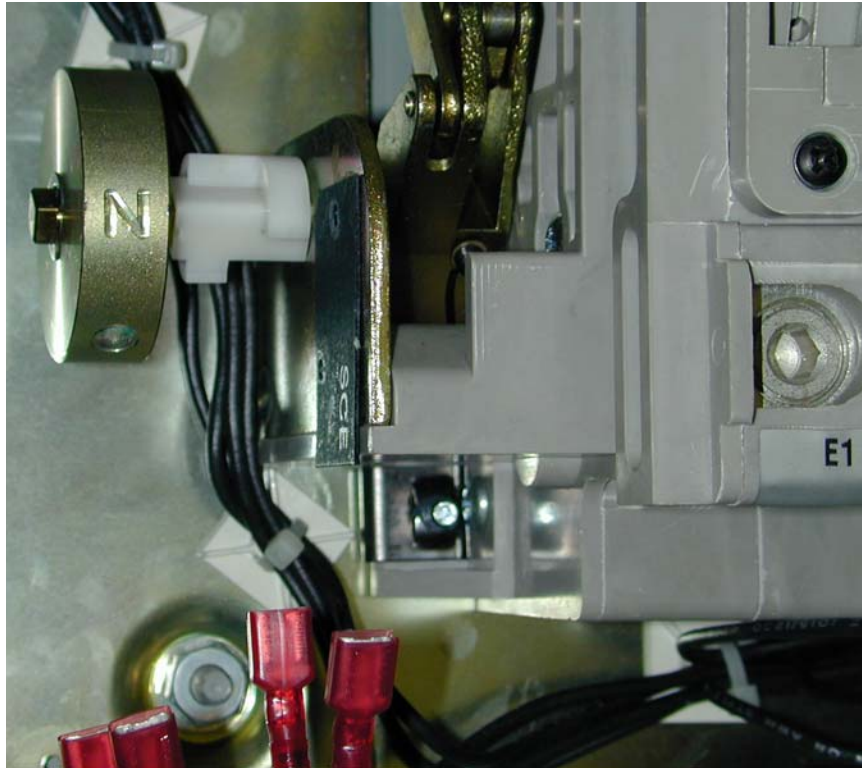


Figure 2.

12. *Remove the suspect micro switch.*

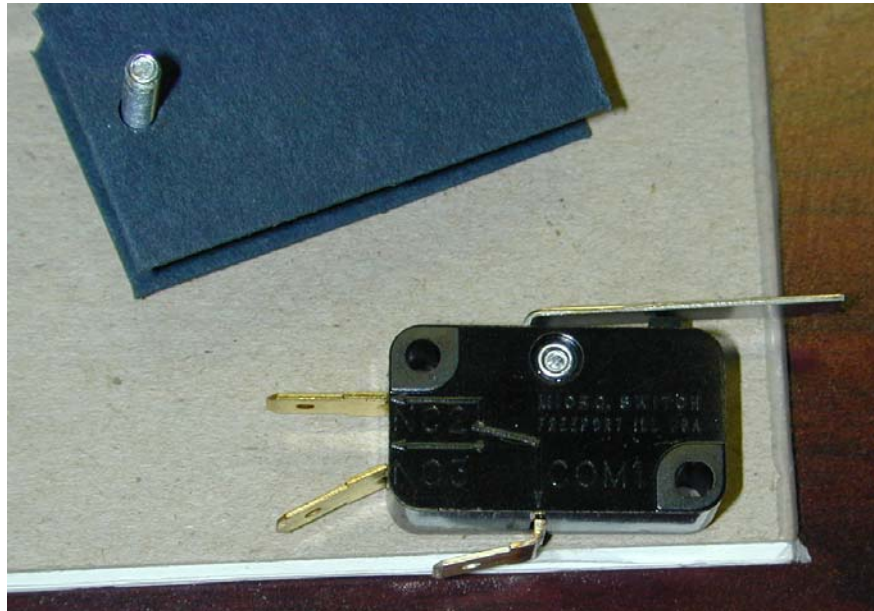


Figure 3.

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13. *Install* the new micro switch into the assembly.

Note: You need to replace the SCN/SCE insulators in the correct order. Normally, the SCE is closest to the base.

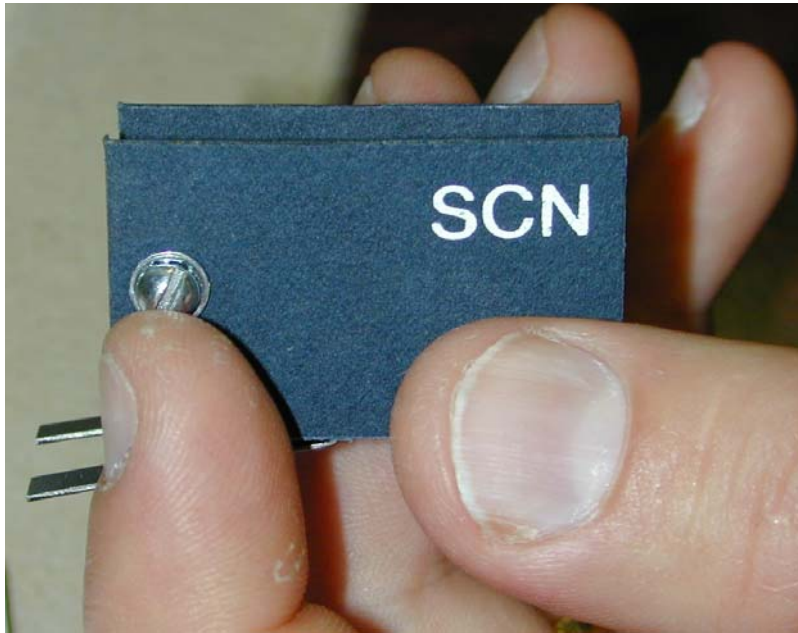


Figure 4.

14. *Re-Install* the micro switch assembly.

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15. *Install* the holding screws.

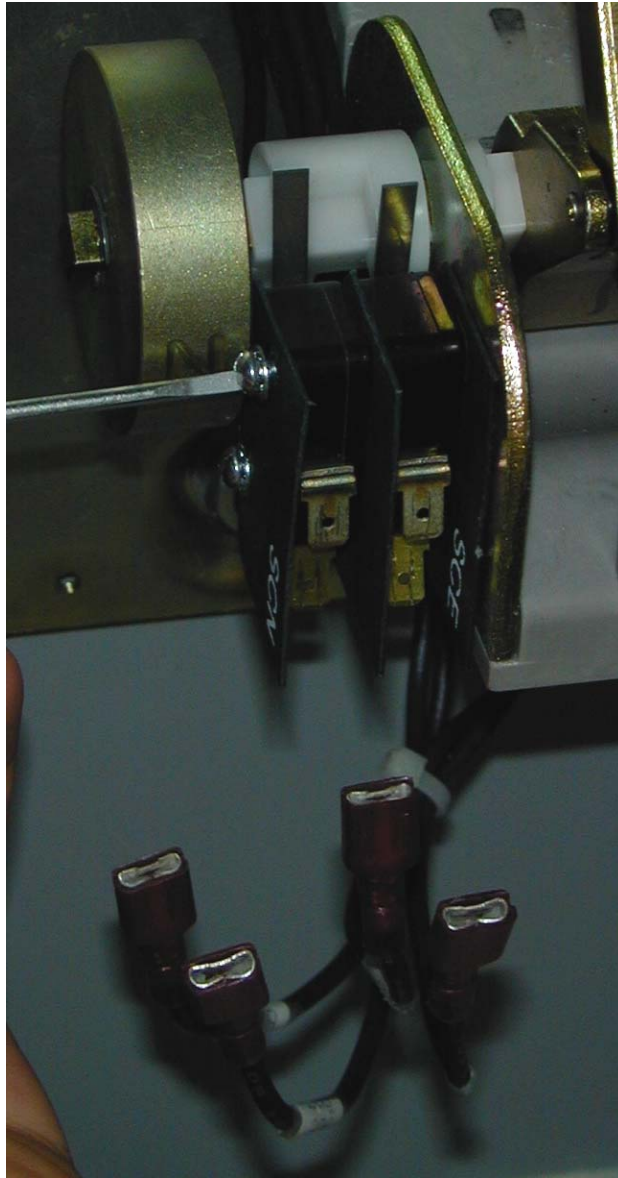


Figure 5.

16. *Tighten* the holding screws.

17. *Connect* the “Fast on” connections to the micro switch terminals.

Note: the terminals used were noted in step 7.

18. Clean the inside of the ATS

19. *Energize* the ATS.

20. *Enable* the generator start-up.

21. *Place* the disconnect switch to “Auto”.

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22. Close the enclosure.

23. Push and hold the test pushbutton.

Note: After the time delay switch should automatically transfer to the emergency position.



Figure 6.

24. Release the test pushbutton.

Note: Once you release the test pushbutton and after the time delay, the ATS should return to the normal position.

25. Clean-up the area.

26. Complete the Service Report.

27. Send Reports to GE Zenith Controls.

You know you are completed when:

- The transfer switch is secured and operating properly.
- The tools are stored.
- The reports are completed.