

F-17 Replace the Micro Switch

Purpose:	To replace a defective Micro Switch
When:	When directed by a service order.

Required Tools & Equipment:

Basic electricians hand tools	PPE
Micro Switch	Rubber insulating gloves class 0
	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 cover.
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 will need to lockout all energy sources to the ATS generator before continuing on.

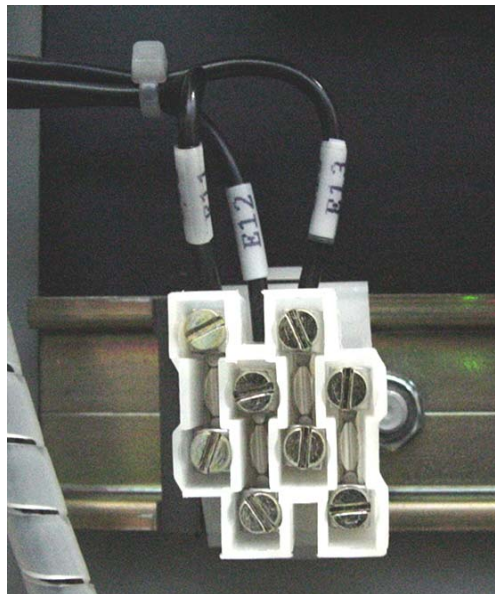


Figure 1.

5. *Disconnect* Main Power
6. *Verify* zero volts across each phase.

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7. Disconnect the J8 plug from the RT box.

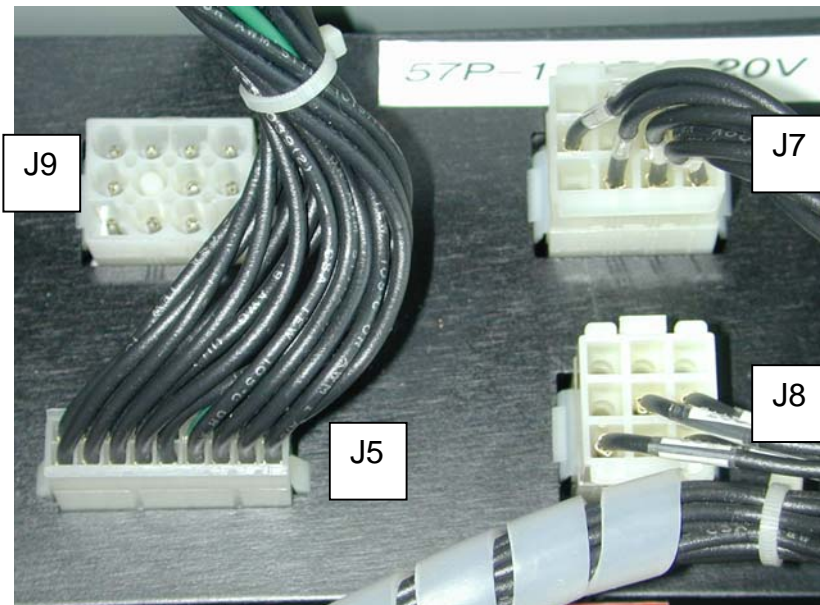


Figure 2.

8. Note the location of the Faston connectors to the micro switch terminals.

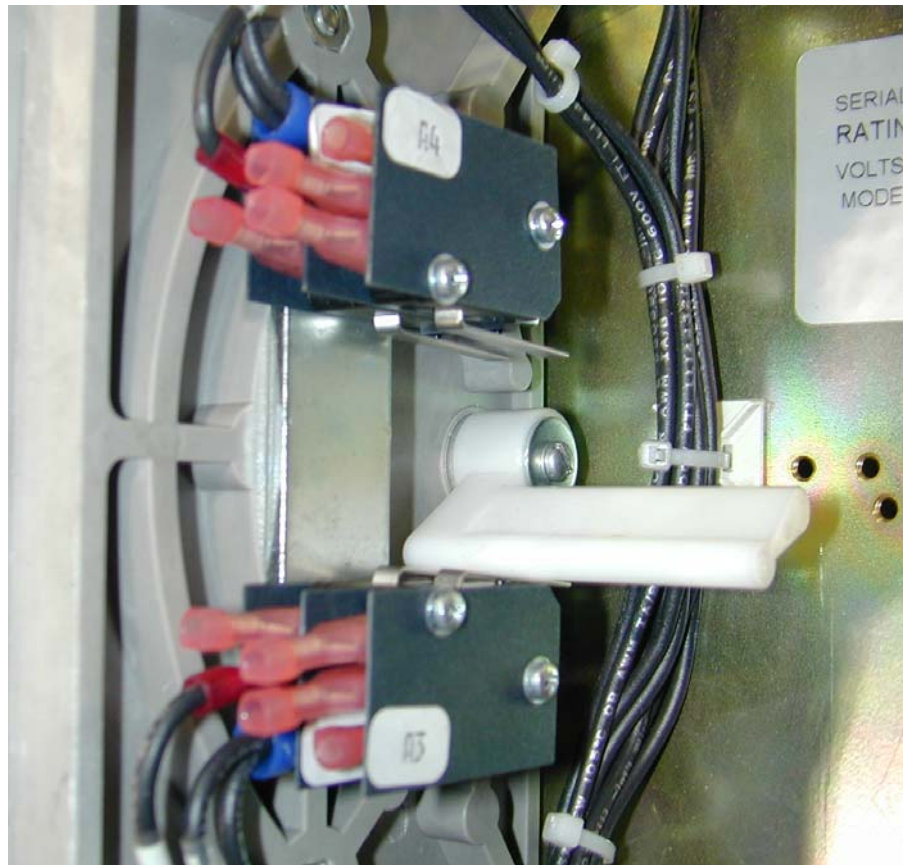


Figure 3.

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9. *Disconnect* the Faston connectors.
10. *Remove* the holding screws.



Figure 4.



Danger

HAZARDOUS VOLTAGE Can Cause Severe Injury or Death

The A3/A4 micro switches can still be energized with customer power. This could be due to the micro switches are used for primary alarm circuits or primary controlling devices that can not be de-energized.

11. *Remove* the suspect micro switch.

Note: For SN/SE assemblies that have four A3/A4 micro switches, you must remove the end plate to access the micro switches.

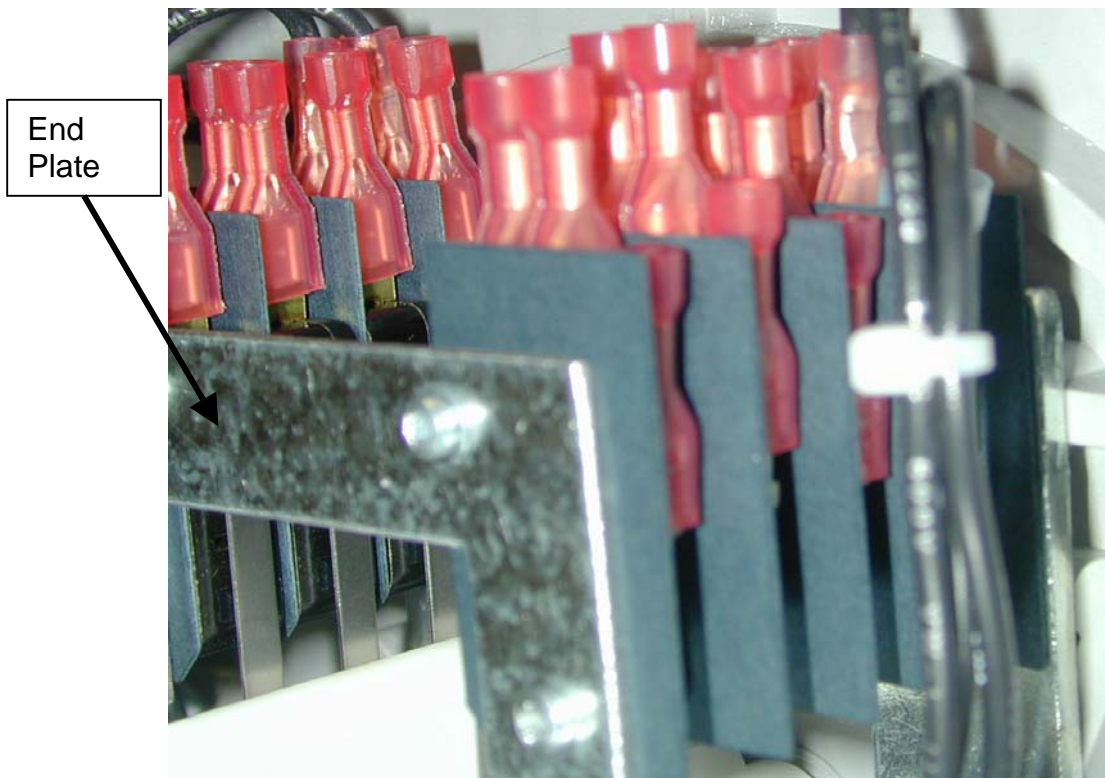


Figure 5

12.

13. *Install* the new micro switch.

Note: For SN/SE assemblies that have four A3/A4 micro switches, you must install an end plate for stability.

14. *Install* the holding screws.

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15. *Tighten* the holding screws to 3 in-lbs.



Figure 6.

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

Note: the terminals used were noted in step 7.

17. *Energize* the ATS.

18. *Connect* the J8 plug to the RT box.

19. *Enable* the generator start-up.

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

21. *Close* the front cover.

22. *Push and hold* the test pushbutton.

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



Figure 7.

23. Release the test pushbutton.

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



Figure 8.

24. *Clean-up* the area.

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25. *Complete* the Service Report.

26. *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.