

| Replace an F-17 Power Panel | |
|------------------------------------|-----------------------------------|
| Purpose: | Replace a defective Power Panel. |
| When: | When directed by a service order. |

| Required Tools & Equipment: | |
|--|----------------------------------|
| Basic electricians hand tools | PPE |
| Multimeter Digital or Analog | Rubber insulating gloves class 0 |
| Wiring harness | Safety glasses |
| Tie wraps | Electrical hazard safety shoes |

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

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| Do These Steps: |
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1. *Obtain* the ISO forms:
2. *Obtain* the ATS door key.
3. *Open* the enclosure.

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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.

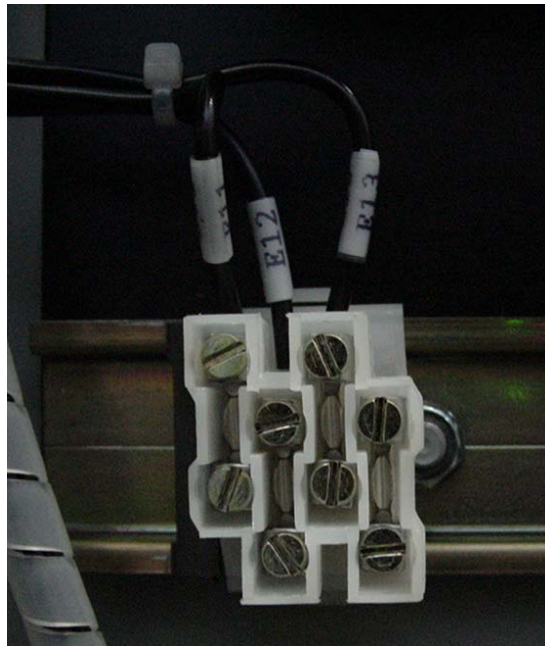


Figure 1.

5. *Lockout* primary and emergency power to the switch.
6. *Check* for zero volts on the normal and emergency power lugs.

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7. Remove the J6, J7 and J8 plugs from the microprocessor, and the RT box.

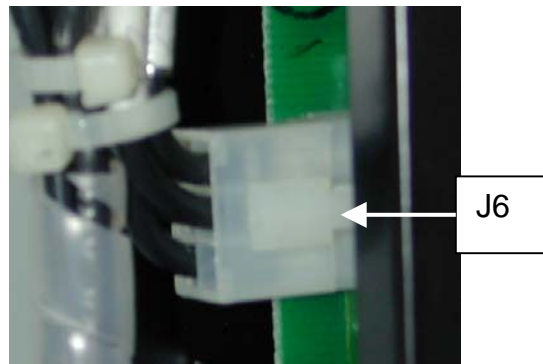


Figure 2.

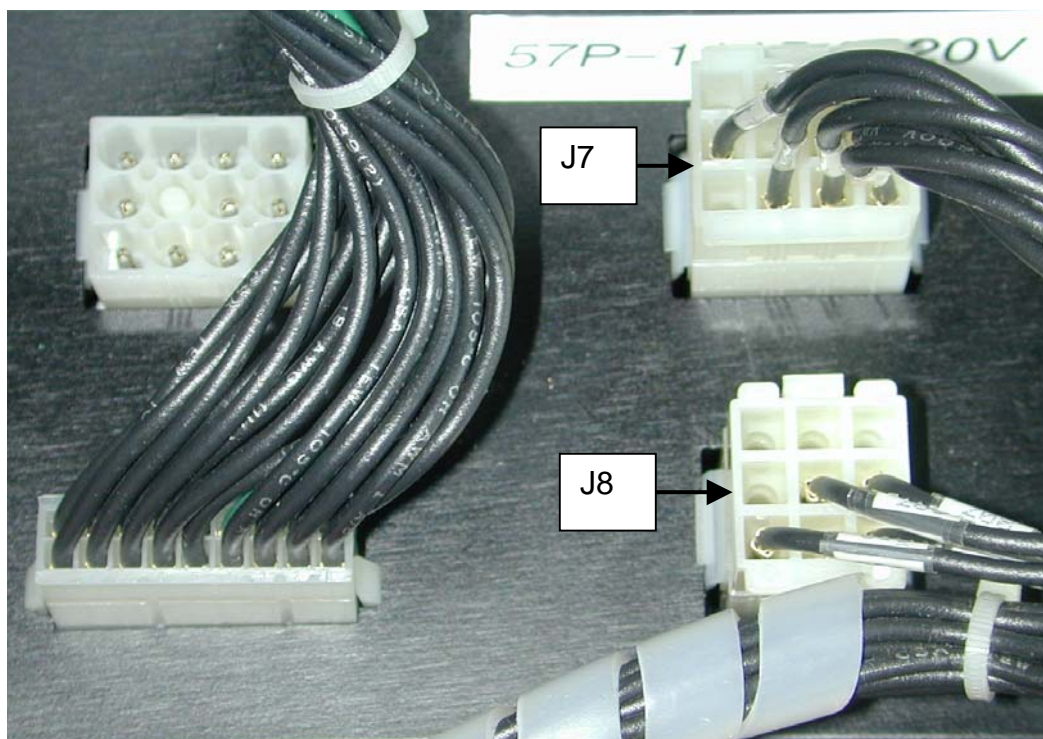


Figure 3.

8. Remove the tie wraps securing the harness.

9. Disconnect Emergency supply cables from the switch.

Note: Mark each cable as to its position as it is removed from the switch.
Example: E1, E2 and E3 for the emergency side of the switch.

10. Disconnect the Normal supply cables from the switch.

11. Disconnect the Load cables from the switch.

12. Remove the four nuts securing the power panel.

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13. *Remove* the power panel.
14. *Install* the power panel onto the studs in the back of the cabinet.
15. *Fasten* the power panel with flat washers, lock washers and nuts.
16. *Torque* the nuts to 65 in-lbs.



Figure 4.

17. *Connect* the power lug wires. To the power lugs.
18. *Connect* the Load cables to the T terminals.
19. *Tighten* the connecting bolts to 12 ft-lbs.
20. *Connect* the Normal cables to the N terminals.
21. *Tighten* the connecting bolts to 12 ft-lbs.
22. *Connect* the Emergency supply cables to the E terminals.
23. *Tighten* the connecting bolts to 12 ft-lbs.
24. *Install* the J6, J7 and J8 to the micro processor and RT box.
25. *Install* Tie Wraps as needed to secure the harness.
26. *Connect* the generator start wires.
27. *Place* the disconnect switch to “Auto” position.
28. *Close* the front cover.

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29. *Energize* the ATS

30. *Enable* the genset to start automatically after the U-timer (cool-down) has timed out.

31. *Push and hold* the test pushbutton.

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



Figure 5.

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32. Release the test pushbutton.

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

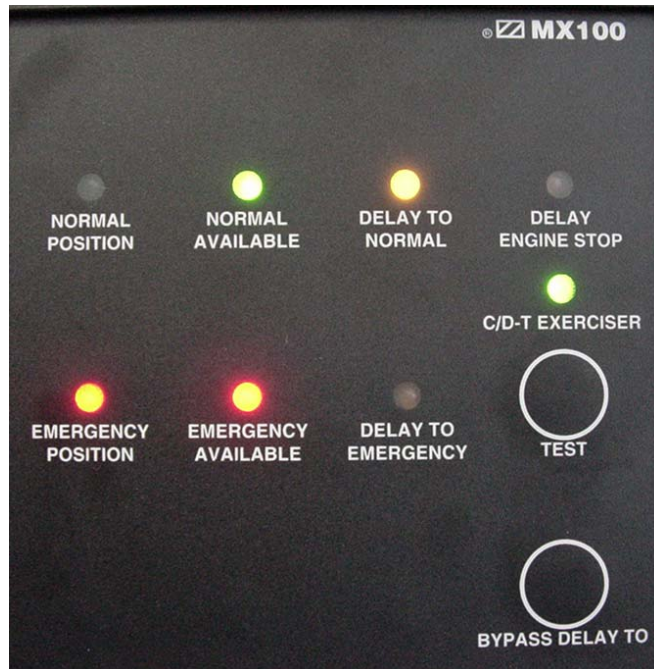


Figure 6.

33. Clean-up the area.

34. Complete the Service Report.

35. Send Reports and power panel 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.