Replace the MX 100 Microprocessor	
Purpose:	To replace a defective MX 100 microprocessor.
When:	When directed by a service order.

Required Tools & Equipment:	
Basic electricians hand tools	PPE
MX 100 Microprocessor	Rubber insulating gloves class 0

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 enclosure.
3. *Note* the position of the “in phase monitor” switch.

4. *Place* the disconnect switch to “Inhibit”.

Figure 1.

5. *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 all energy sources to the ATS continuing on.

Figure 2.

6. *Disconnect* plug J8 from the RT box.

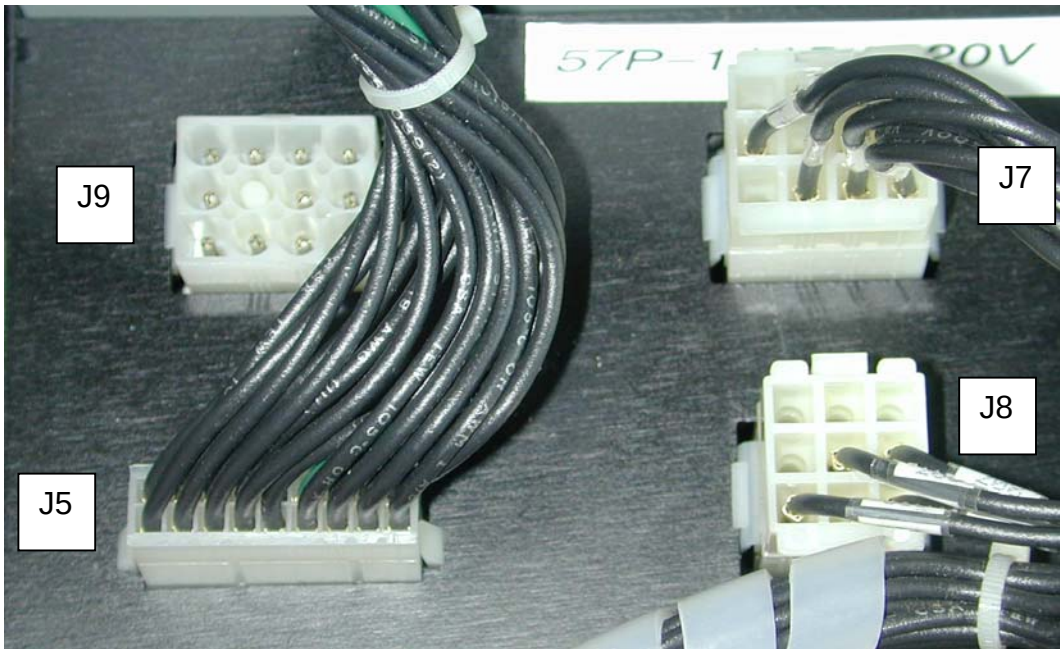

Figure 3.

7. *Remove* the disconnect switch from it's housing.

Figure 4.

8. *Remove* the "FASTON" connectors from the disconnect switch.

9. *Disconnect* plugs J5 & J6.

   Note: If you have a microprocessor with a J3 option plug, it needs to be disconnected.

10. *Disconnect* wires E11, E12, and E13 from the microprocessor.

11. *Remove* the four nuts and washer that secure the microprocessor to the enclosure door.

12. *Remove* the Din rail.

    Note: components will still be attached to the din rail.

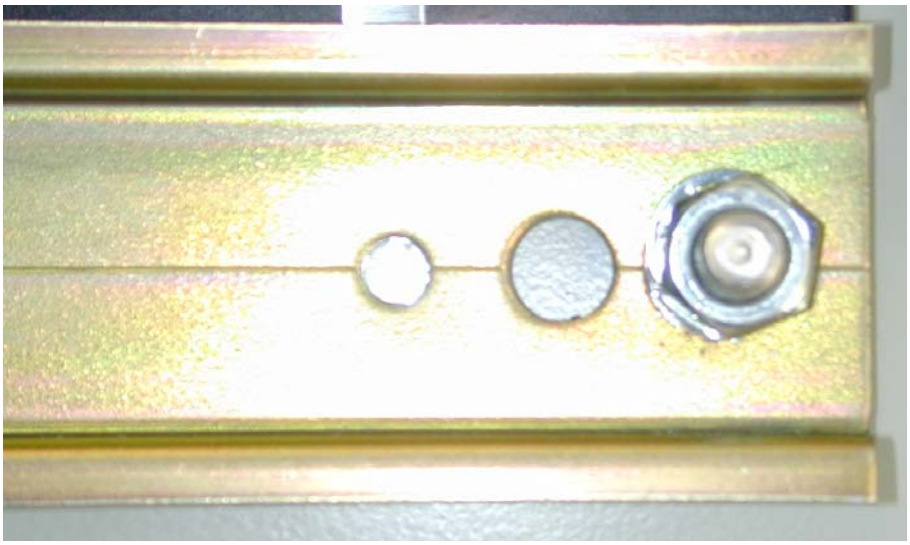

Figure 5.

13. *Remove* the microprocessor.

14. *Install* the new microprocessor.

15. *Install* the din rail.

16. *Install* one washer and one nut on each of the bolts holding the microprocessor.

17. *Tighten* the holding nuts.

18. *Connect* plugs J5 & J6.

    Note: If you have a microprocessor with a J3 plug, it needs to be re-connected.

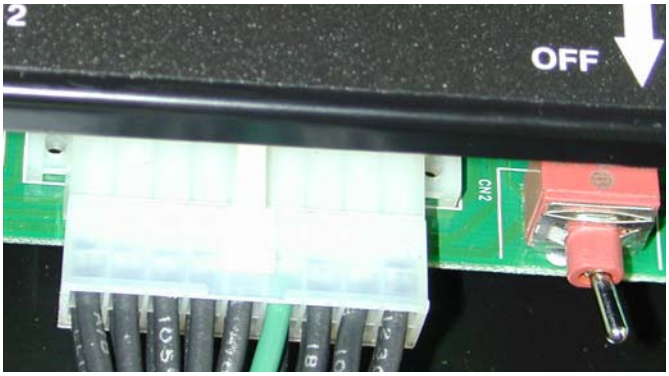

Figure 6.

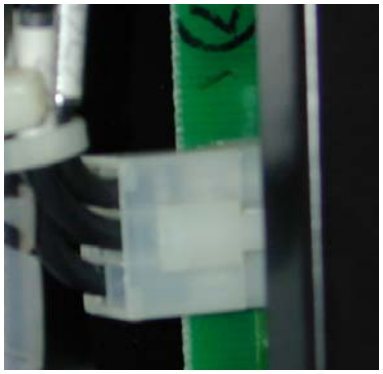

Figure 7.

19. Adjust the “U” timer to “0”.

    Warning: Ensure the “Time delay Engine Stop” LED is off before proceeding.

20. Connect wires E11, E12, and E13 to the microprocessor.

21. Connect the Fast on connections to the disconnect switch.

    Note: Use terminals 1 and 1A.

22. Install the disconnect switch into it’s housing.

23. Adjust the “U” timer to the factory or customer setting.

24. Install the 9v battery.

25. Check the front panel for a stand-by screen.

Figure 8.

26. Connect J8 to the RT box.
27. Place the in phase monitor: switch to the noted position.
28. *Enable* the generator start-up.
29. *Connect* plug J8 to the RT box.
30. *Place* the disconnect switch to “Auto”.
31. *Close* the enclosure.

32. *Push and hold* the test pushbutton.

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

Figure 9.

33. 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 10.

34. *Clean-up* the area.
35. *Complete* the Service Report.
36. *Send* Reports and defective MX100 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.