

DIMENSION[®] 2000 AND CUSTOM PBX
PREPOWER INSPECTION AND APPLICATION
OF POWER, NON-RESERVE SYSTEMS

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1. GENERAL

1.1 Visually inspect equipment for loose or unconnected wires, bent or broken parts, and loose cable clamps.

1.2 Utilizing the System Configuration Layout, verify that carriers are equipped with the proper circuit packs and that all circuit packs are properly seated in their assigned locations.

1.3 Verify that all fuse panels are equipped with the proper fuses.

2. CABINET INSPECTION

2.1 Visually inspect the cabinet(s) for dents, scratches, or other damage.

2.2 All intercabinet connector cables should be properly installed, as required.

3. CROSS CONNECT FIELD INSPECTION

3.1 Inspect the main cross connect field. Verify that the field area is free from spare wire and wire clippings.

3.2 All connecting blocks should be firmly mounted and properly labeled.

4. POWER

4.1 The following operations should be performed before AC power is applied to the system.

4.2 Verify that commercial power circuits assigned to the system are protected by circuit breakers.

4.3 Verify that all AC panels and the AC module boxes are grounded per drawing SD-1E481-01.

4.4 Verify that the proper power supply is furnished:

J87432D-1, L-1 Common Control Cabinet
J87432B-1, L-1 All Other Cabinets

4.5 Verify that power supply control circuit packs are properly seated in their associated receptacles.

4.6 At the Customer's Power Service Panel and at the AC module boxes, set circuit breakers to ON and measure the line voltage using ITE-5632, (KS-20599-L4 or equivalent) Digital Multimeter. No Cabinets should be plugged into the AC module boxes at this time.

<u>At AC Module Box</u>	<u>Allowable Voltage Range</u>
117V Supply	106.5 to 128.5V AC

5. POWER APPLICATION

5.1 Preliminary Operations

(a) At the CSS Alarm Panel in the common control cabinet, set GO/HALT switch(s) to HALT.

(b) At the CSS Alarm Panel, set EMER. TRANSFER switch to NORMAL.

(c) Remove the tape cartridge from the mini-recorder.

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- 5.2 Set all the cabinet power supply circuit breakers to OFF (down).
- 5.3 Insert all the cabinet power cords into the AC module box receptacles. Use the receptacles in a top to bottom pattern rather than side to side in order to equalize the load on each row of three receptacles. The cabinet fans should run.

5.4 At the cabinet power supplies, set all the circuit breakers except AC input to ON. In addition, set the MAAP panel breakers to ON (Common Control and Module Control Cabinets).

5.5 Starting at the Common Control Cabinet, set the AC input breakers to ON. As each cabinet is powered up, watch for blown fuses and for circuit breakers that will not hold. Defective control circuit packs in the power supply may be the cause of a breaker tripping out during the power up phase. The cabinet fans should go off as each AC input breaker is set to ON.

- 5.6 Using the ITE-5632 Digital Multi-meter, measure and record the power supply voltages in all the cabinets. Expected results are shown below:

COMMON CONTROL CABINET

<u>Test Point</u>	<u>Voltage Limits</u>	<u>Voltage Measured</u>
+12 VM	11.6 to 12.4	
+5 V	4.9 to 5.25	
+5 VM	4.85 to 5.25	
-5 V	-4.85 to -5.25	
-48 V	-42.25 to -53.75	

ALL OTHER CABINETS

<u>Test Point</u>	<u>Voltage Limits</u>	<u>Voltage Measured</u>
+5 V	4.7 to 5.3	
-5 V	-4.9 to -5.3	
+9 V	8.7 to 9.3	
-9 V	-8.7 to -9.3	
BAT	-42.25 to -53.75	
+5 TS	4.9 to 5.3	
-48 V	-42.25 to -53.75	

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