APPENDIX H - POWERTECH REGULATOR ADJUSTMENT

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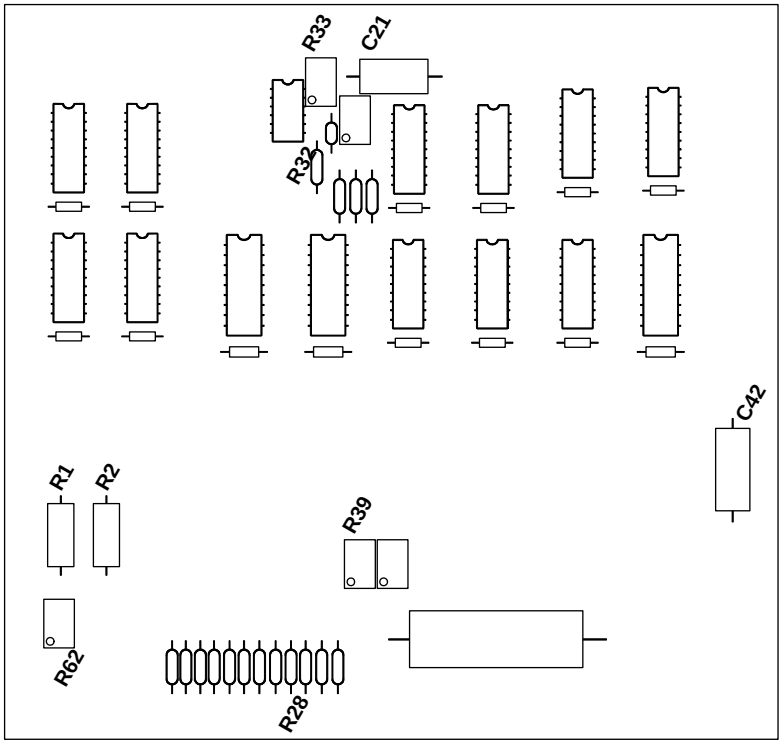
H-1 POWERTECH REGULATOR ADJUSTMENT

1. Measure the actual regulated line voltage (unscaled) to verify test points accurately indicate a 100:1 relationship. Measure the regulated voltage at any of the power feeds to any of the cabinets with expected measurements of 208vac.

2. Check that R33 on all three logic boards are adjusted for proper values as follows (See Illustration H-1 for location of components on Logic Board):



LOGIC BOARD COMPONENTS
ILLUSTRATION H-1

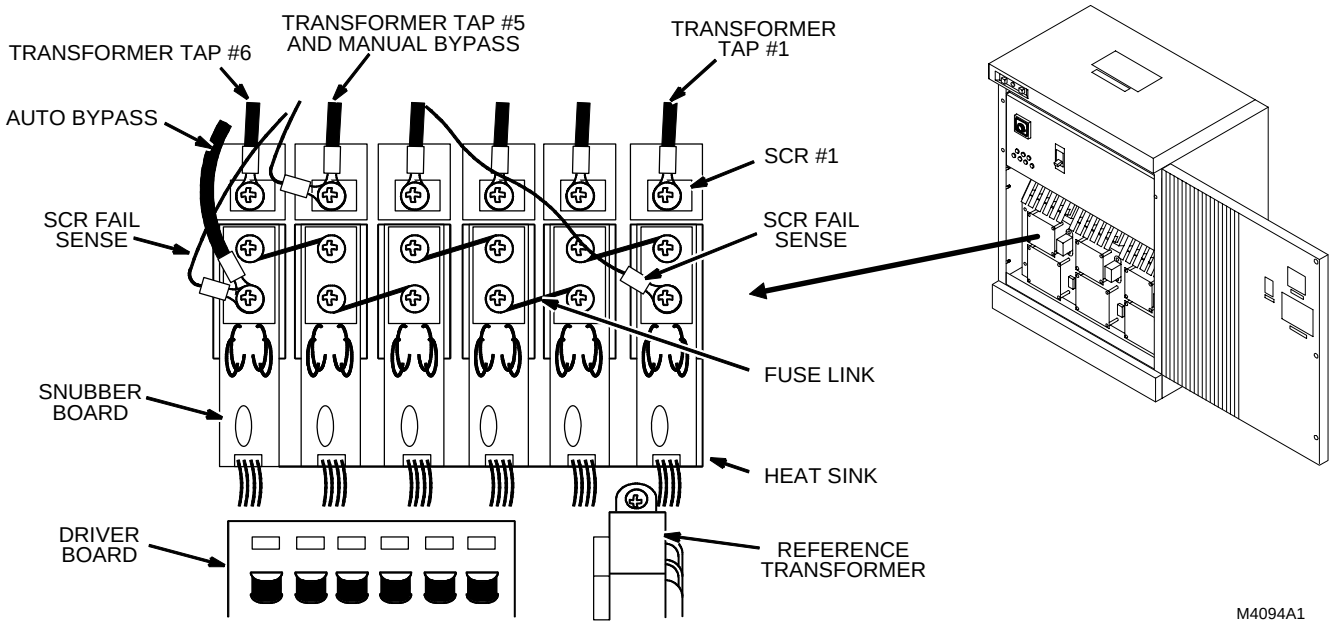
   a. Attach ohmeter leads to to the top of R32 and left of C21. Adjust R33 for ohmeter to read the following values:
      - 55K ohms for Auto Transformer types.
      - 105K ohms for Isolation Transformer types. (Normally used for MR.) The Power Transformers on the Isolation types are much larger (approx. 2X) than the Auto Transformer types.)

3. Power up the Powertech Regulator, set to AUTO MODE, and under System Load, recheck the adjustments on all three logic boards as follows (See Illustrations H-1 and H-2):

   - 10 to 100 mv AC across R1 or R2 (typically 20 - 40 mv AC).
   - 8.5 VDC across C42 (adjust R62 accordingly).
   - Check output voltage test points for proper line to neutral settings as follows:

     — 208V output - acceptable range is 1.17 to 1.23V. (Adjust R39 as needed)
     — 480V output - acceptable range is 2.70 to 2.84V. (Adjust R39 as needed)

H-1 POWERTECH REGULATOR ADJUSTMENT (continued)



REGULATOR SCR ASSEMBLIES AND SNUBBER BOARDS
ILLUSTRATION H-2