SERVICE NOTE

SUPERSEDES:
None

HP MODEL 8671B SYNTHESIZED SIGNAL GENERATOR

Serial Prefixes 2752A and below

PREFERRED REPLACEMENT FOR THE A3A5 DAC ASSEMBLY

A new DAC Board Assembly (HP part number 08673-60229) is the preferred replacement for A3A5 DAC Assembly (HP part number 86701-60015). The new DAC Board Assembly uses a Monolithic DAC to replace 21 precision resistors and reduce the adjustments from 9 interactive adjustments to 2 non-interactive adjustments.

The DAC Board Assembly (A3A5) should only be replaced by the new part number when the assembly has failed.

The following part will need to be ordered to complete the conversion.

A3A5 YTO DAC Board Assembly 08673-60229

Adjustment of the new YTO DAC assembly will be necessary. Be sure to update the parts list in the operating and service manual with the new part number.

Adjustment Procedure

1. Preset the Signal Generator and set the frequency to 6198.00 MHz.
2. Connect the DVM ground lead to the reference ground, A3A6TP5. (The ground lead remains connected here for the rest of the procedure).
3. Check the voltage of the Reference Voltage Buffer at A3A5TP4. Verify that the voltage is -6.300 +/-0.063 Vdc. Make repairs if necessary.
4. Connect the DVM to the YTO Pretune Output, A3A5TP5.
5. Connect test points A3A5TP1 and A3A5TP2 together with an alligator clip.
6. Adjust A3A5R15 (OFFSET) to obtain a DVM reading +6.00 mV +/-0.02 mVdc.

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7. Remove the alligator clip from testpoints A3A5TP1 and A3A5TP2.

8. Adjust A3A5R8 (GAIN) to obtain a voltage of -18.594 +/-0.001 Vdc.

9. Tune the Signal Generator to 4466.000 MHz. Verify that the voltage at A3A5TP5 is -13.398 +/-0.03 Vdc.

10. Tune the Signal Generator to 4049.000 MHz. Verify that the voltage at A3A5TP5 is -12.147 +/-0.03 Vdc.