P.C. None

SUPERSEDES
3570A-6

-hp- MODEL 3570A NETWORK ANALYZER

All Serial Numbers

# HOW TO IMPROVE AIR CAPACITOR RELIABILITY

Improper replacement of capacitor A3, A4, A5, A19, A20, A21 - C1 and C6 can cause the part to fail.

The mounting pins on the air capacitors do not correspond to the holes in the printed circuit boards. If the air capacitor is forced into the printed circuit board, a stress will form at point A (See Figure 1). The air capacitor will attempt to relieve the stress by moving the rotor and stator out of parallel alignment (See Figure 1). This movement, to relieve the stress, can take up to several months. The result is that the rotor and stator plates short together. Air capacitors that have shorted must be replaced. The solder joint at point A (See Figure 1) has weakened and air capacitors repaired by bending the plates will fail again.

The only way to relieve the stress is to install the air capacitor correctly.

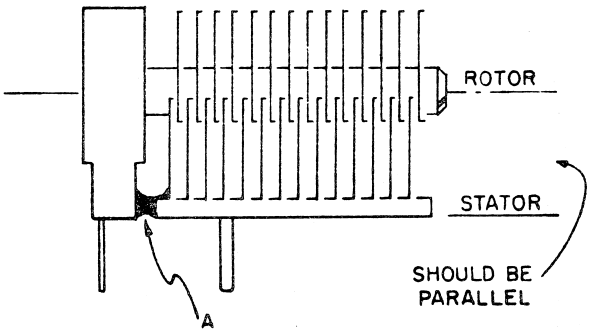


**Figure 1. Air Capacitor.**

Procedure for replacement of air capacitor.

1. Remove air capacitor from printed circuit board.
2. Clean out the printed circuit board holes.
3. Using needle-nose pliers, pre-form the replacement air capacitor leads, so that the air capacitor will drop easily into the printed circuit board holes.

   *Do not force the part into the printed circuit board. This can cause the part to fail.*
4. Solder the air capacitor leads. Use only sufficient heat to melt the solder. Excessive heat may weaken the solder joint at point A (See Figure 1).

Correct your 3570A Operating and Service Manual by adding the above information.

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