

INSTALLATION OF FREQUENCY OPTIONS

MODEL 109 SERVICE MONITOR

NOTE: Handle frequency options only by edge of boards.

1. Remove cover of 109 - Lift cover slowly while maintaining outward pressure at rear bottom corners.
2. Carefully remove frequency options from jacks; J1 through J7 (4 on top) rear left of chassis.
3. Beginning with your highest frequency option (450-462 MHz) carefully plug in to J4, next highest into J3, then J2 and J1 (then J7, J6, J5 in that order on bottom if necessary), lowest frequency option closest to J5.
4. Front buttons will have to be re-arranged. Top will remain 20 to 32 MHz. Next will be highest frequency ((450-462 MHz) J4) and so on down in descending frequency options.
5. Tuning the 440-452 and 450-462 frequency options - 4 tunable caps on back of boards and two bottom loops of wire on front are primary tuners, other loops and caps along bottom of boards are secondary tuning aids (transistor in socket is for read-out) input on top pin and output on bottom pin (groove cut in bottom to fit board). Tune with Mode switch in GEN. position.
6. Spectrum Analyzer Calibration: Observe Hi-Side Band and check for stability of frequency - when hand is placed near card, signal may be attenuated but frequency must not shift or change.
7. Replace cover.
8. Check output level and frequency at r.f. connector.

Max output

10 mv to 230 MHz

1 mv 230 MHz to 512 MHz

Frequency measurement accuracy 1 p.p.m. (digital indication) *Note 450-462 is down 20db.*