

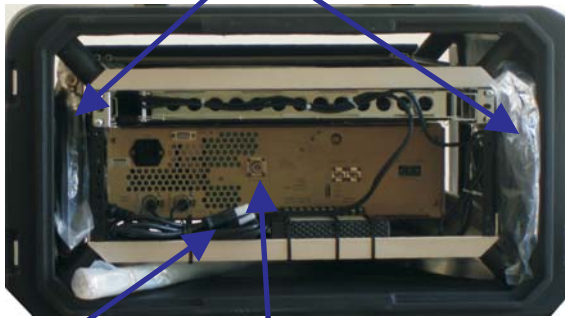
# Quick Set-Up For Radio Station In A Box

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# 1

## Remove front and rear covers

Co-ax cable 50' type N male to male and male to female (extention)



AC cords

Release Lap top side screws



Antenna

Connect the antenna to the RF Output using the male to male length of coax, extend it with the male to female length if required. Mount the antenna to the highest possible point, well away from other objects. Adjust the length of the antenna in accordance with the antenna tuning instructions. Connect Both the laptop and transmitter to 220VAC and switch on. Follow the start up procedure described on next page.

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## Connect AC and tune up antenna

# 2

Connect the transmitter to 220VAC and switch on. Follow the start up procedure described on next page. Once the transmitter is transmitting on the desired frequency, check the reverse power. It should be Zero, anything greater than 5% of the forward power (ie 5W for 100W output) requires attention.

If it is higher than 5%- Recheck the antenna tuning instructions.

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## Slide out the laptop open cover

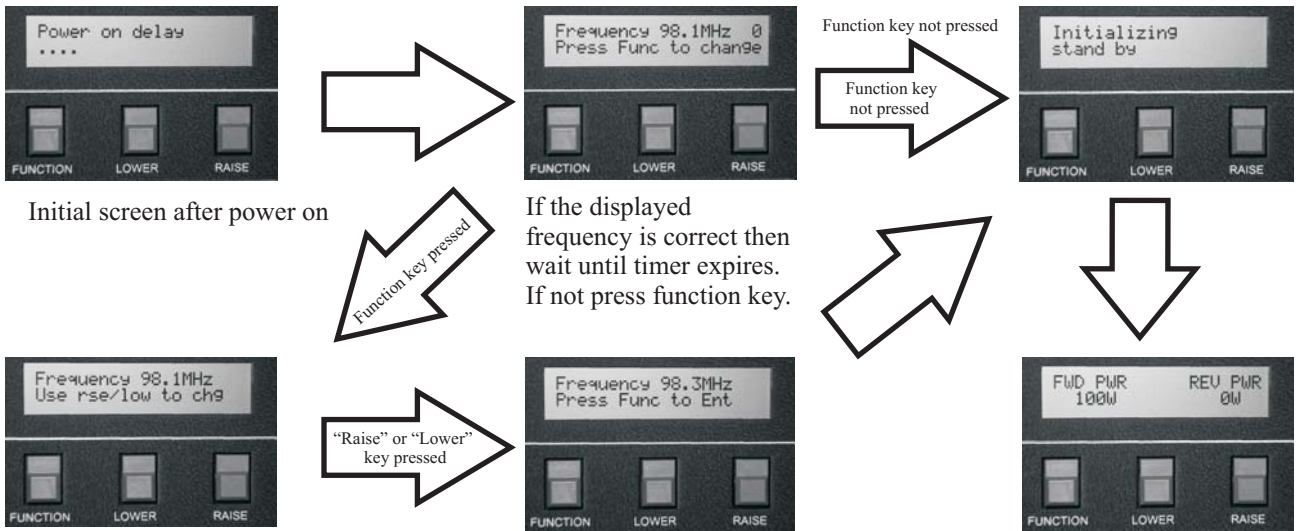
# 3



At this point you may want to switch of the transmitter while you familiarize your self with the Radio automation software. The software is very powerful and can provide may 100s of hours of programming. Once the laptop is switched on and boots up the radio automation software will run a sample program. This may not be what you want to go out over the air. For full instructions refer to the enclosed software manual.

# Over

## Start up sequence



Use "Raise" or "Lower" key to enter new frequency. When frequency is correct press "Function" key to enter.

After the transmitter has tuned to the frequency displayed on the screen above, use the "Raise" or "Lower" key to set the power output level.

## Audio



All the program (audio) is generated on the lap top. The audio levels have already been set and should not need to be changed. By pressing the function key a number of times on the transmitter the deviation can be checked. When the display is in the DEVIATION mode the maximum deviation should go up to the 100% (indicated by the thick bar) level occasionally. If it never gets there or is going above 100% the level needs to be adjusted. This can be done on the lap top by pressing and holding [Fn] key, and then press [F6] key to increase the deviation or [F5] to decrease it.

## Final Check



Pressing the "Function" key rotates the display through the screens displayed on the left. At each screen pressing the raise "Lower" key changes the output power only. PA Volts and PA Amps is another way of indicating the power output. Multiply the voltage by the current,  $44.9 \times 6.9$  (in this example = 309); then multiply this by the efficiency (.33) to give 102Watts. Note these readings weekly for changes. Changes indicate developing problems, such as antenna or coax deterioration.