

Magnum Delta Force NPC-RC mod

Locate C-394 in front of the regulator (Usually 2SB754) it looks like a resistor.

Mark its position on the solder side of the board.

Now, prepare a 1N4001 by cutting the cathode lead to 1/16th inch. Cut a 100 ohm 1/8 watt resistor lead off to 1/16th inch. Solder these two shortened leads together in line. Bend these into a hair-pin shape by bending the long end of the diode and install across the leads of C-394 with the cathode end of the diode pointing towards the back of the radio. Place a small piece of heat shrink over the diode resistor combo for protection

Now, unsolder the 2 pins on the bias adjustment board that's closest to the big regulator

Completely remove the center pin from this board and the main board.

You now have an empty hole where the back pin of TP-7 (could be marked different for the Delta Force) previously went. The circuit trace should go to the dual finial transistors!

From this hole, run a wire to the emitter of TR-51, the 2SB754 AM/Regulator. The trace will have full supply voltage (the lead closest to the front of the radio I believe) you might want to set the finial bias before completing this part of the mod. See Below.

Before firing it up, turn the carrier adjust pot (RV-118) fully counter-clockwise. If this is not done, the dead key will be extremely high. Plug it in and adjust VR-118 for about 6 watts Dead-key with the RF power in the high position and then adjust RV-117 for 2 watts on Lo.

Pull one leg of R-421 (this defeats the modulation limiter in Am mode only.)

Set the driver Bias to 50 Ma, use RV-114 then set the finial Bias to 100 Ma each. To do this set both RV-112 and 113 to (0) then adjust RV-112 to 100 Ma then RV-113 to a reading of 200 MA. (100 Ma each)

The driver bias is set by connecting a mini amp meter between the two remaining pins on the bias adjustment board. Then keying the radio in either SSB mod with NO modulation. The dual finials are set by connecting the amp meter between the wire you have just installed. If you have trouble setting the finial bias, Unsolder the collector of one finial and set them one at a time to 100 Mini amps.

For best results Use the stock Mic. It's a power mic, The use of a 636 mic requires tuning in the mic amp section of the echo board. And I still could not get the same LOUD audio that I have with the stock Delta mic. Enjoy

The basics of this mod was sent to me by different members of CBtricks.com I have modified the mod package to work for the Delta Force radio.

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