

Ranger AR 3500 Permanent battery back up

(3) Locate Yellow wire on fine tune portion of Clarifier POT. Remove at PCB. Resolder to good board ground.

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● **Pat Vizenor**

Parts needed

- (1) 1N4001 Diode (or equivalent).
- (2) 1 AC Adapter (Radio Shack Cat. No. 273-1552)
- (3) Negative wire to Board Ground positive wire the Anode of the 1N4001 Diode connect Cathode to point "E" as indicated

Super Star 3900 28.300-28.500

● **TERRY SHELLY**

Bit Adder IC7 MC14008BCP

Switch between pins 13 and 12 will give 28.300 to 28.500 on high "D" band, set frequencies to slide ahead to get RC Channels or use 10K jump in volume 22. Radio is broad banded and very little tuning is necessary.

CONVERTING THE UNIDEN PRO 810E WITH THE D.S.B. HF CONVERTER BOARD

● **MARK WASSERMAN**

- (1) Remove C67 (the unmarked cap located between L38 and the PLL chip)
- (2) Replace D19 (located lower left side of L130 with super slide diode.
- (3) Connect red wire of D.S.B. to pin 11 of PLL chip.
- (4) Connect black wire to ground.
- (5) Connect blue wire to the side of C67 going to pin 10 of PLL chip.
- (6) Connect yellow wire to the side of C67 going to L38.

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(7) Place radio on ch(1) with switch in either position and key radio.while adjusting L38 until 27.285 or 27.605 displays on counter.

(8) Place switch to opposite position and place radio on ch 40. With radio keyed adjust vco until 27.725 or 28.045 displays on counter.

Be sure to check channels 1-40 with switch in all positions for proper vco setting.

(9) Adjust coils L34, L35, L36. L37. And L26 so power level is even across entire frequency range of the kit

VR1 = "s" meter

VR2 = squelch

VR3 = tx freq.

VR4 = carrier balance

VR5. = amc

VR6. = .alc

VR7. = "rf" meter

VR8. = final

VR9. = driver bias

VR10. = am power

*NOTE****parts layout is identical to PC122 in SCB Vol.24 pg.20*

CLARIFIER MODIFICATION:

(1) Remove covers an lay radio upside down

(2) Remove 2 side screws and 3 bottom screws that hold the front panel on.

(3) Lean front panel towards you and locate the clarifier pot.

(4) Cut both outside traces of the clarifier from the pc board

(5) Solder a jumper from the ground side of the meter-movement to the side of the clarifier closest to the top of the radio.

(6) Solder a jumper from the other side of the clarifier to jp17 (8 volts) Located to the left of the voltage regulator.

(7) Replace all screws to the front panel.

(8) Remove D25 & R119.

(9) Replace D23 with Super Slide diode.

(10) Retune coils L15-AM, L16-USB, L17-LSB with clarifier at 12 o'clock.

*Note****Slide with Super Slide diode was +/-4kc, and with the Stock diode, slide was +/- 1kc.*