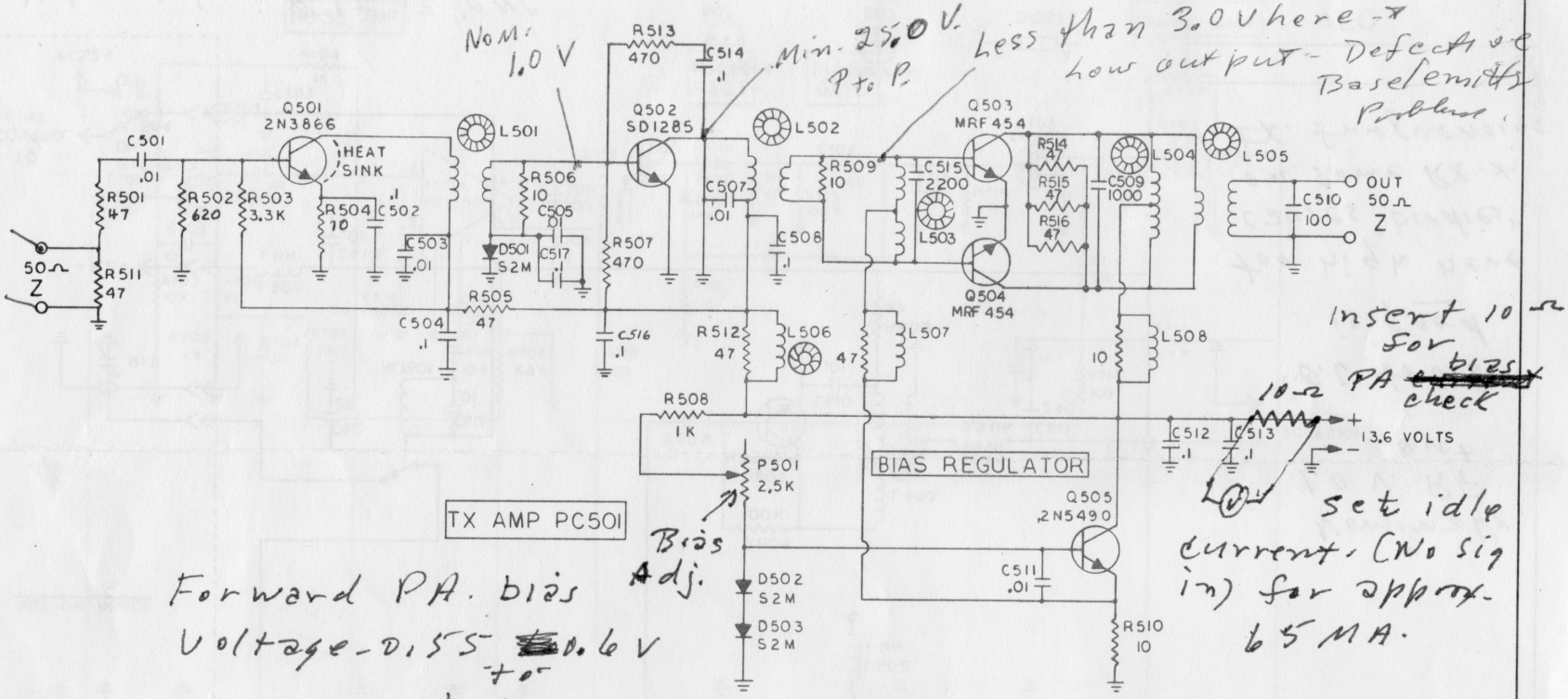
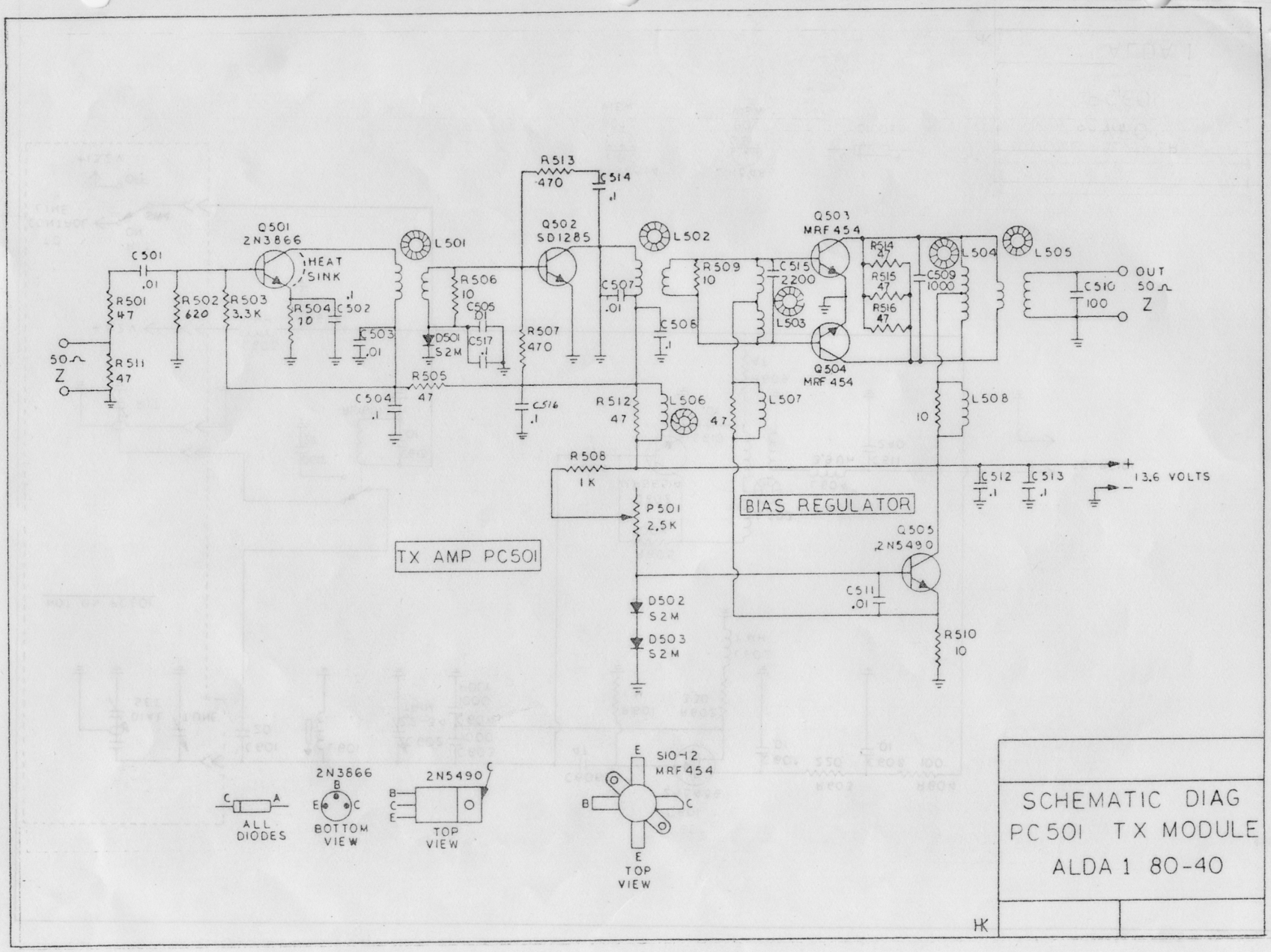
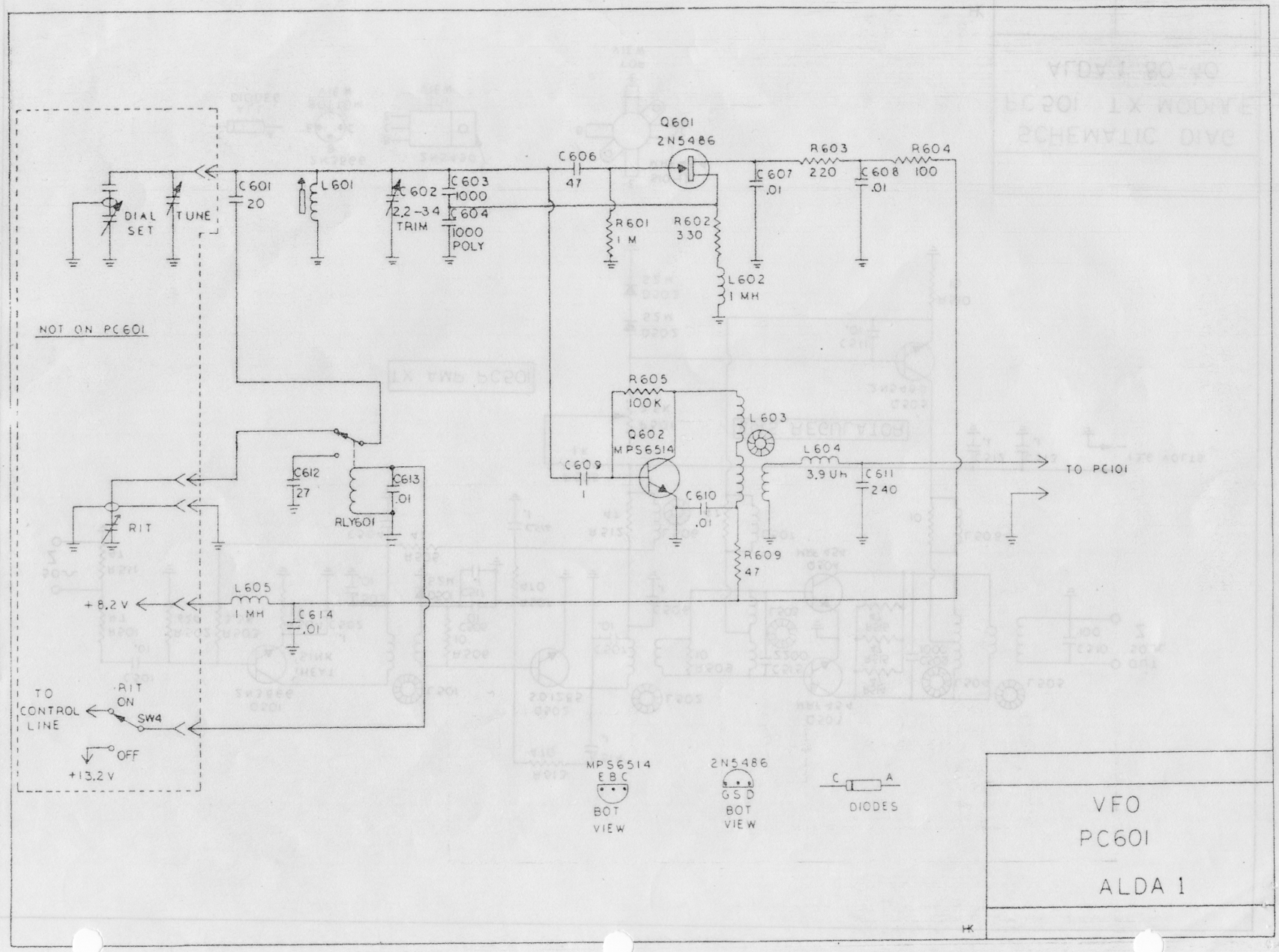
Notes: When tble-shooting earlier stages for Tx problems. remove the B+ -(12V) lead from PA chassis and measure input at R511

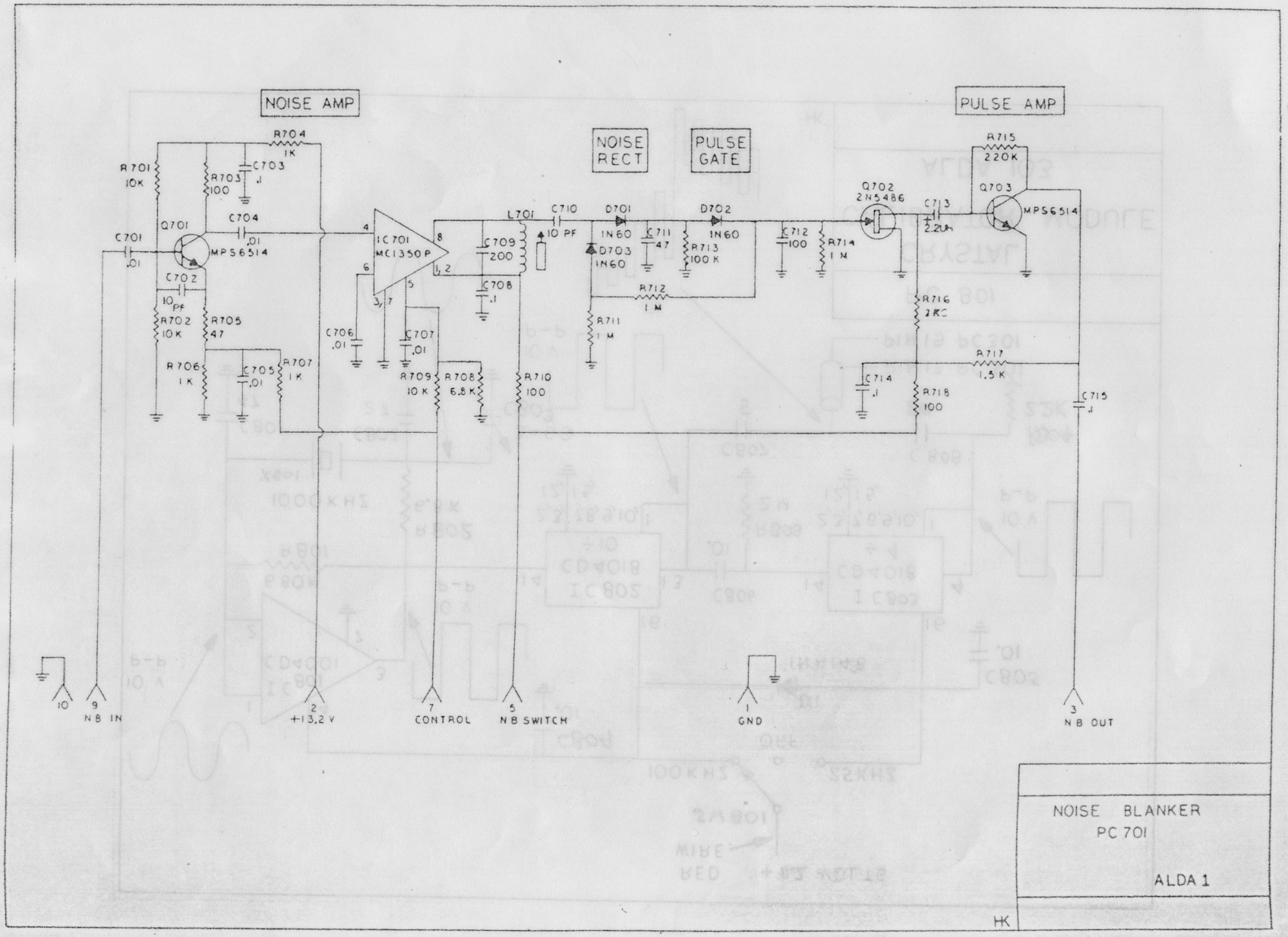


SCHEMATIC DIAG
PC501 TX MODULE
ALDA 1 80-40

Inputs Required for
For Alda. 105 mod.: 80M-2.7/3.0V, 40M-3.0V, 15M, 20M-3.0V to-3.5V, 10M-3.0 to 3.5V


Q501
2N3866
HEAT SINK
C501
.01
R501
47
R502
620
R503
3.3K
R504
10
C502
.1
C503
.01
R511
47
50Ω
Z
L501
R506
10
C505
.01
D501
S2M
C517
.1
R505
47
C504
.1
R513
470
C514
.1
Q502
SD1285
R507
470
C516
.1
C507
.01
C508
.1
L502
R509
10
C515
2200
L503
Q503
MRF454
Q504
MRF454
R514
47
R515
47
R516
47
C509
1000
L504
L505
C510
100
OUT
50Ω
Z
R512
47
L506
47
L507
L508
10
R508
1K
P501
2.5K
TX AMP PC501
BIAS REGULATOR
C512
.1
C513
.1
+
13.6 VOLTS
-
Q505
2N5490
C511
.01
R510
10
D502
S2M
D503
S2M
C
A
ALL DIODES
2N3866
B
E
C
BOTTOM VIEW
2N5490
C
B
C
E
TOP VIEW
E
S10-12
MRF454
B
C
E
TOP VIEW
SCHEMATIC DIAG
PC501 TX MODULE
ALDA 1 80-40
HK


NOT ON PC601
DIAL SET
TUNE
C601 20
L601
C602 2.2-34 TRIM
C603 1000
C604 1000 POLY
C606 47
Q601 2N5486
R601 1 M
R602 330
L602 1 MH
C607 .01
R603 220
C608 .01
R604 100
R605 100K
Q602 MPS6514
C609 1
C610 .01
L603
L604 3.9 UH
C611 240
TO PC101
R609 47
C612 27
C613 .01
RLY601
RIT
+8.2 V
L605 1 MH
C614 .01
TO CONTROL LINE
RIT ON
SW4
OFF
+13.2 V
MPS6514
E B C
BOT VIEW
2N5486
G S D
BOT VIEW
C A
DIODES
VFO
PC601
ALDA 1
HK


NOISE AMP
NOISE RECT
PULSE GATE
PULSE AMP
R704 1K
R701 10K
R703 100
C703 .1
C704 .01
C701 .01
Q701 MPS6514
C702 10 PF
R702 10K
R705 47
R706 1K
C705 .01
R707 1K
IC701 MC1350P
C706 .01
C707 .01
R709 10K
R708 6.8K
C709 200
C708 .1
L701
C710 10 PF
D701 1N60
D703 1N60
C711 47
R713 100K
D702 1N60
R712 1M
R711 1M
R710 100
C712 100
R714 1M
Q702 2N5486
C713 2.2uf
R715 220K
Q703 MPS6514
R716 2.2K
R717 1.5K
C714 .1
R718 100
C715 .1
10
9 N B IN
2 +13.2 V
7 CONTROL
5 N B SWITCH
1 GND
3 N B OUT
NOISE BLANKER
PC 701
ALDA 1
HK

CONNECTING THE CALIBRATOR MODULE PC 801 TO THE ALDA 103 TRANSCEIVER

1. Remove both covers. Turn transceiver upside down.

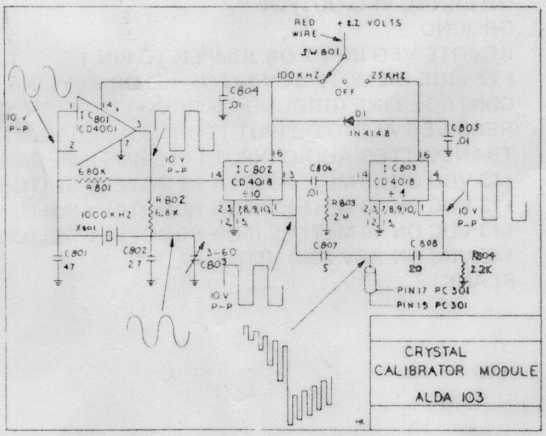
2. Fit the Calibrator PC Board to the bracket holding the dial ball-drive unit. Use the two screws provided. See Figure 1 for location.

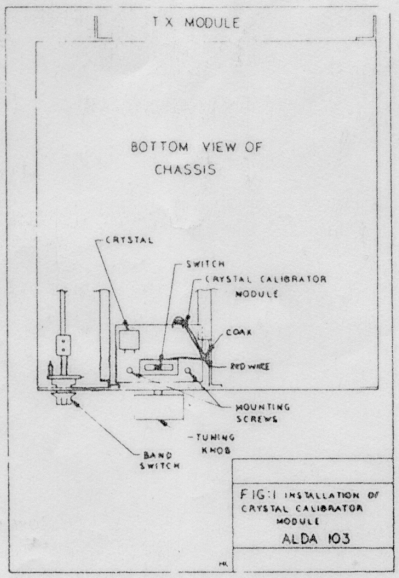
3. Feed the red wire through the opening, past the meter, turn transceiver right side up. Connect the wire to the dial lamp located directly behind the dial. This is a +8.2 volt point and has one other red and orange wire connected to it. Tuck the wire down so that it does not get pinched when the cover is replaced. See Figure 2.

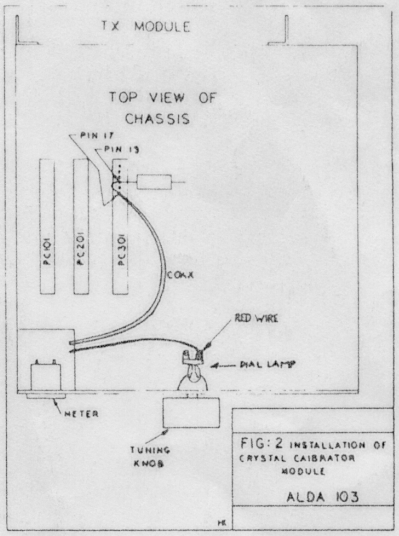
4. Feed the co-axial cable through the opening, past the meter. Turn the transceiver right side up. Connect the co-ax inner conductor to pin 19 of the PC301 PC board connector. (Counting from the front.) Solder the braid to pin 17 of the same socket. See Figure 2 for PC301 location.

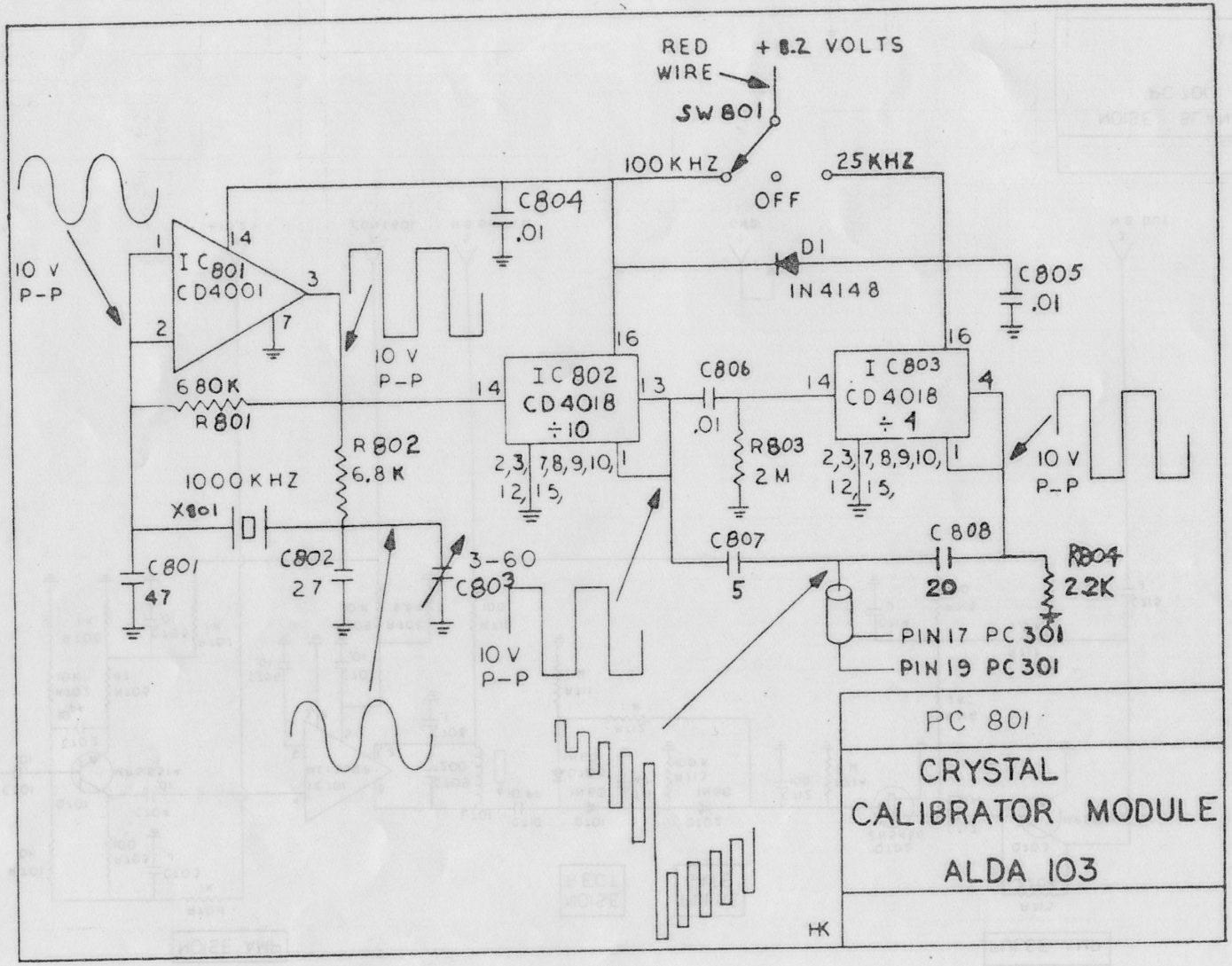
5. Turn on the transceiver. The center position of the switch is OFF. The left-hand position gives 25 Khz markers, and the right-hand position 100 Khz markers (viewed from the normal operating position). The Calibrator is adjusted to frequency at the factory.

NOTE: When both the crystal calibrator and the noise blanker are energized simultaneously, a feedback condition exists due to the harmonic content of the calibrator. This is a normal condition, which may be bothersome during calibration. To eliminate this condition, momentarily turn off the noise blanker.








RED WIRE
+8.2 VOLTS
SW801
100KHZ
OFF
25KHZ
C804
.01
D1
IN4148
C805
.01
10 V P-P
IC801
CD4001
680K
R801
10 V P-P
IC802
CD4018
÷10
C806
.01
R803
2M
IC803
CD4018
÷4
10 V P-P
R802
6.8K
1000KHZ
X801
C801
47
C802
27
3-60
C803
10 V P-P
C807
5
C808
20
R804
2.2K
PIN17 PC301
PIN19 PC301
PC 801
CRYSTAL
CALIBRATOR MODULE
ALDA 103
HK