AD - 203

INSTRUCTIONS FOR COBRA RADIO

1. Remove speaker-side case of the radio and remove speaker from the case. (Save the four screw and nuts)

2. The Cobra needs to be modified so it will only key 2½ - to – 3 watts. Super mod or down tune for best results.

3. Locate the Antenna Jack (Ant.) on back of radio and remove the antenna wire from the jack. Locate the "RTX" and "ANT" coax on the Amplifier. The *ANT* coax will go to the jack and the *RTX* coax will be soldered to the wire which was removed from the jack. Both shields on the coax must be grounded. (See diagram A)

4. The red and black power lead from the Amplifier will be soldered to the radio power jack. Replace the 3-amp fuse with a 10-amp fuse in the power cord.

5. The On/Off switch can be mounted on the side or top of the radio.

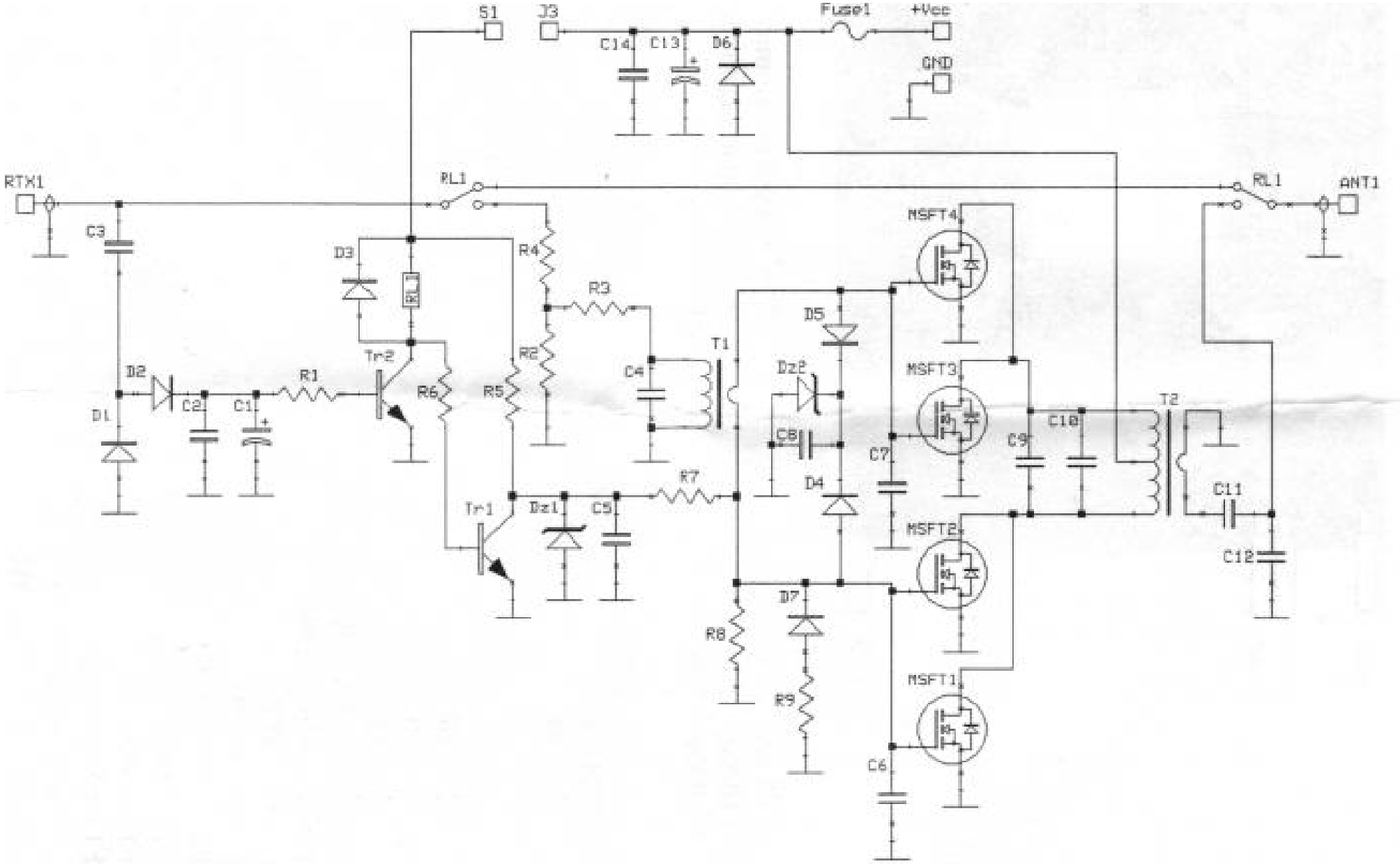
6. Mount the Amplifier where the speaker was removed with the four screws and nuts.

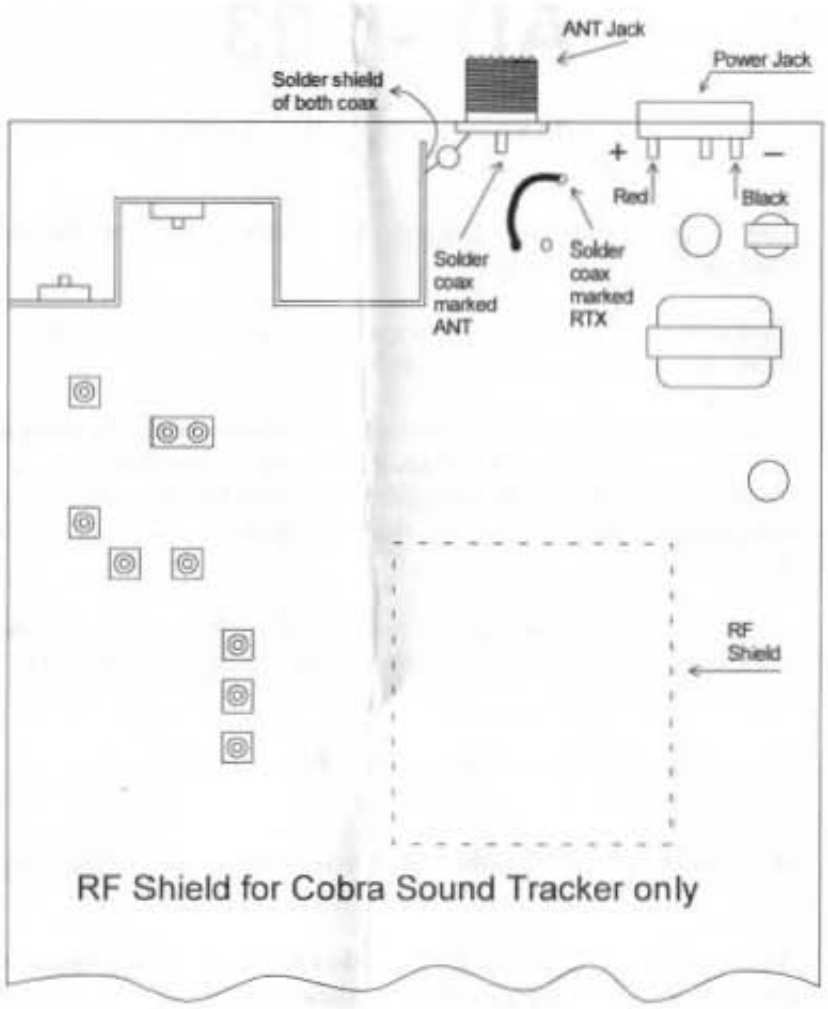
7. On Cobra Sound-Trackers, a shield will be needed on top of the main Printed Circuit Board. This keep RF out of the Audio Circuit. A copper board (2½ x 3) is furnished. Solder in or top of the IF/RF transformer.

8. Replace top case on the radio, close and replace screws.

9. If using Regular Cobra, LTD does need shielding.

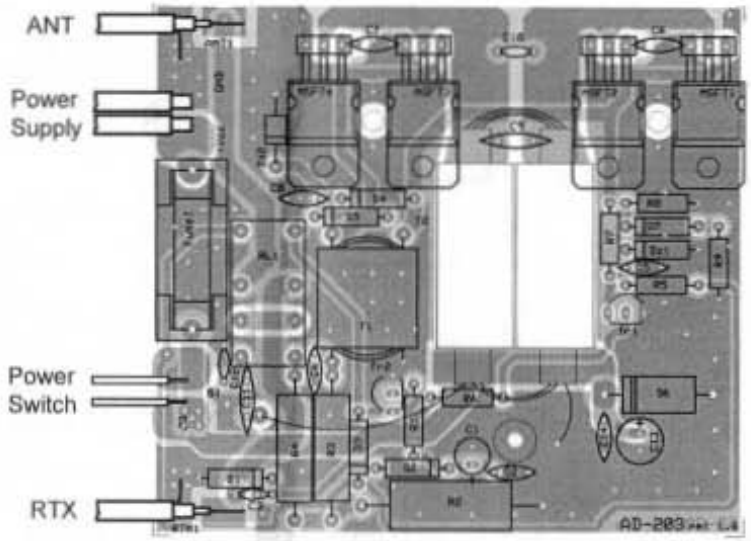
PLEASE NOTE: DO NOT INSTALL IN ANY RADIO THAT WILL KEY MORE THAN FOUR (4) WATTS.


S1
J3
Fuse1
+Vcc
GND
C14
C13
D6
RTX1
RL1
RL1
ANT1
C3
D3
R4
R3
MSFT4
D5
T1
Tr2
R2
D2
R1
R6
R5
C4
Dz2
MSFT3
T2
D1
C2
C1
C8
C9
C10
C7
R7
D4
Tr1
Dz1
C5
C11
MSFT2
C12
D7
R8
R9
MSFT1
C6



List of components

C 1	= 10 µF	16 V		C 10	= 47 pF	500V	N750
C 2	= 100 nF	50 V		C 11	= 180 pF	500V	N750
C 3	= 8,2 pF	50 V	NP0	C 12	= 33 pF	500 V	NP0
C 4	= 150 pF	50 V	N750	C 13	= 100 µF	25 V	
C 5	= 100 nF	50 V		C 14	= 100 nF	50 V	
C 6	= 270 pF	50 V	N750	R 1	= 2,2 KΩ	¼W	
C 7	= 270 pF	50 V	N750	R 2	= 47 Ω	5W	
C 8	= 10 nF	50 V		R 3	= 22 Ω	2W	
C 9	= 180 pF	500V	N750	R 4	= 22 Ω	2W	



R 5 = 1,0 Kω ¼W
R 6 = 10 Kω ¼W
R 7 = 10 Kω ¼W
R 8 = 3,3 Kω ¼W
R 9 = 1,0 Kω ¼W
D 1 = 1N4148
D 2 = 1N4148
D 3 = 1N4148
D 4 = 1N4148
D 5 = 1N4148
D 6 = 1N5400
D 7 = 1N4148
Dz 1 = Zener 7,5 V ½W
Dz 2 = Zener 20 V 1,3W
TR 1 = BC 547 B
TR 2 = BC 547 B
MSFT 1 = MOS RM3
MSFT 2 = MOS RM3
MSFT 3 = MOS RM3
MSFT 4 = MOS RM3
S 1 = Switch (ON - OFF)
Rl 1 = Relè 12 V 3022.7.012

T 1 = Input transformer
T 2 = Output transformer
Fuse = 5 A