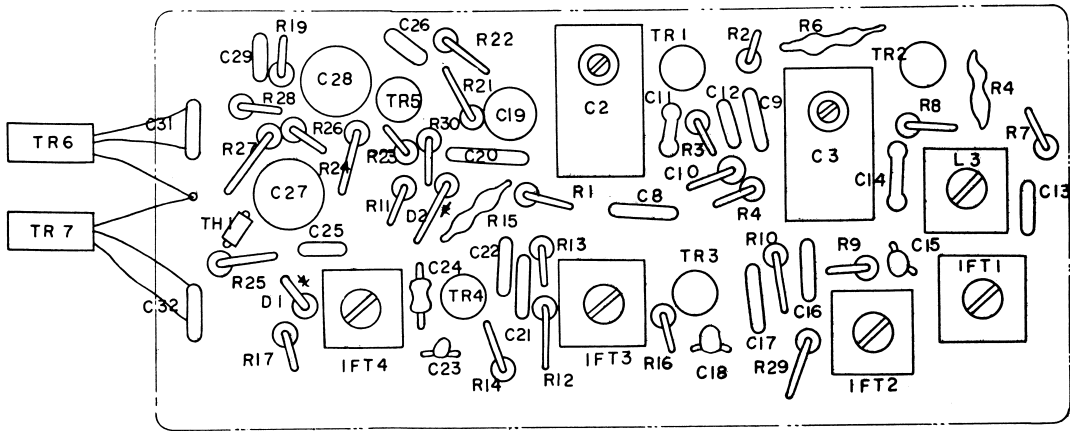
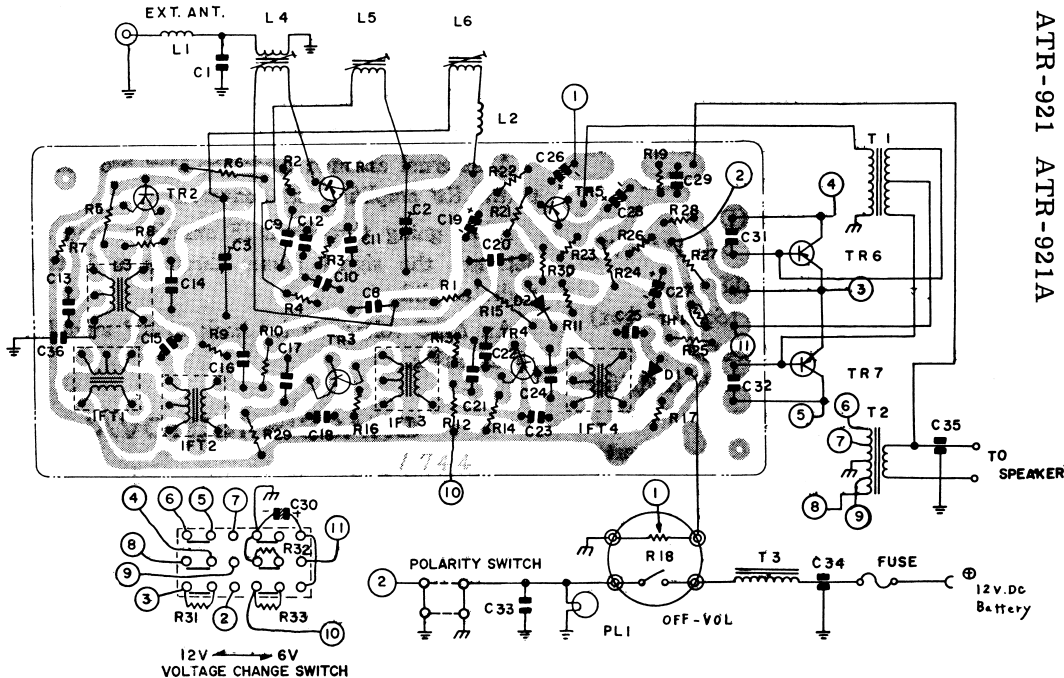


# P.C.B. TOP

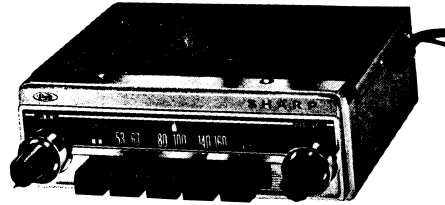


# P.C.B. BOTTOM



SHARP ATR-921 ATR-921A

12V ← 6V  
VOLTAGE CHANGE SWITCH



## MODEL ATR-921 ATR-921A

### SPECIFICATIONS

Frequency Range : MW : 530-1605KC  
 Intermediate Frequency : 455KC  
 Power Supply : 12V (12V/6V)  
 Power Output : 2 W (2W/1W)  
 Speaker : 4 3/4" Permanent Dynamic  
 Speaker with speaker box  
 Dimensions : 2" (H) x 5" (D)  
 x 6 1/4" (W)  
 Weight : 3.08 lbs., 0.88 lbs  
 (Speaker box)  
 Transistor Complement : TR 1 2SA355  
 RF Amplifier  
 TR 2 2SA15  
 Converter  
 TR 3 2SA12A  
 1st IF Amplifier  
 TR 4 2SA12C  
 2nd IF Amplifier  
 TR 5 2SB75  
 AF Amplifier

TR 6, 7 2SB370  
 Audio Output

### GENERAL DESCRIPTION

The circuitry used in this car radio incorporates 7 transistors, 2 diodes and 1 thermistor.

An external antenna feeds the MW broadcast signal to the RF amplifier and converter.

After going through 2 IF amplifiers and 1 diode detector, the signal passes through a 3 transistor audio amplifier.

An AGC voltage is fed back to RF amplifier and IF amplifier.

### CHASSIS REMOVAL

1. Remove 6 cover retaining screws.
2. Remove the cover.
3. Remove 4 screws located on the printed circuit board.
4. Remove the output transformer leads, the input transformer leads and tuner lead.

ATR 921A shown in ( )

### ALIGNMENT INSTRUCTION

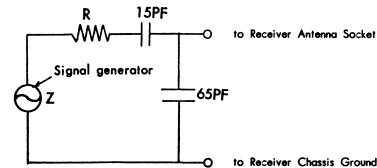
Should it become necessary at any time to check the alignment of this receiver, proceed as follows.

- 1) Connect an output meter across the speaker voice coil lugs.
- 2) Set volume control at maximum.
- 3) Use the lowest setting of signal generator capable of producing adequate indication on the lowest scale of output meter.
- 4) Use a non-metallic alignment tool.
- 5) Repeat adjustments to insure good results.

### ALIGNMENT CHART

STEP	BAND	SIGNAL GENERATOR		RECEIVER		ADJUST	
		CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS		
1	M.W.	Connect signal generator through the *dummy to the external antenna.	Exactly 455KC. (400%, 30%, AM modulated.)	the highest frequency range	Adjust for maximum output on speaker voice coil lugs.	3rd-IF Trans. core 2nd-IF Trans. core 1st-IF Trans. core	
2	M.W.	Same as step 1	Exactly 520KC. (400%, 30%, AM modulated.)	the lowest frequency range	Same as step 1	MW Oscillator core (L6)	
3	M.W.	Same as step 1	Exactly 1670KC. (400%, 30%, AM modulated.)	Same as step 1	Same as step 1	MW Oscillator trimmer (C3)	
4	M.W.	Same as step 1	Exactly 1400KC. (400%, 30%, AM modulated.)	1400KC	Same as step 1	MW Antenna trimmer (C1) RF trimmer (C2)	
5	M.W.	Repeat steps 2, 3, and 4 until no further improvement is obtained.					

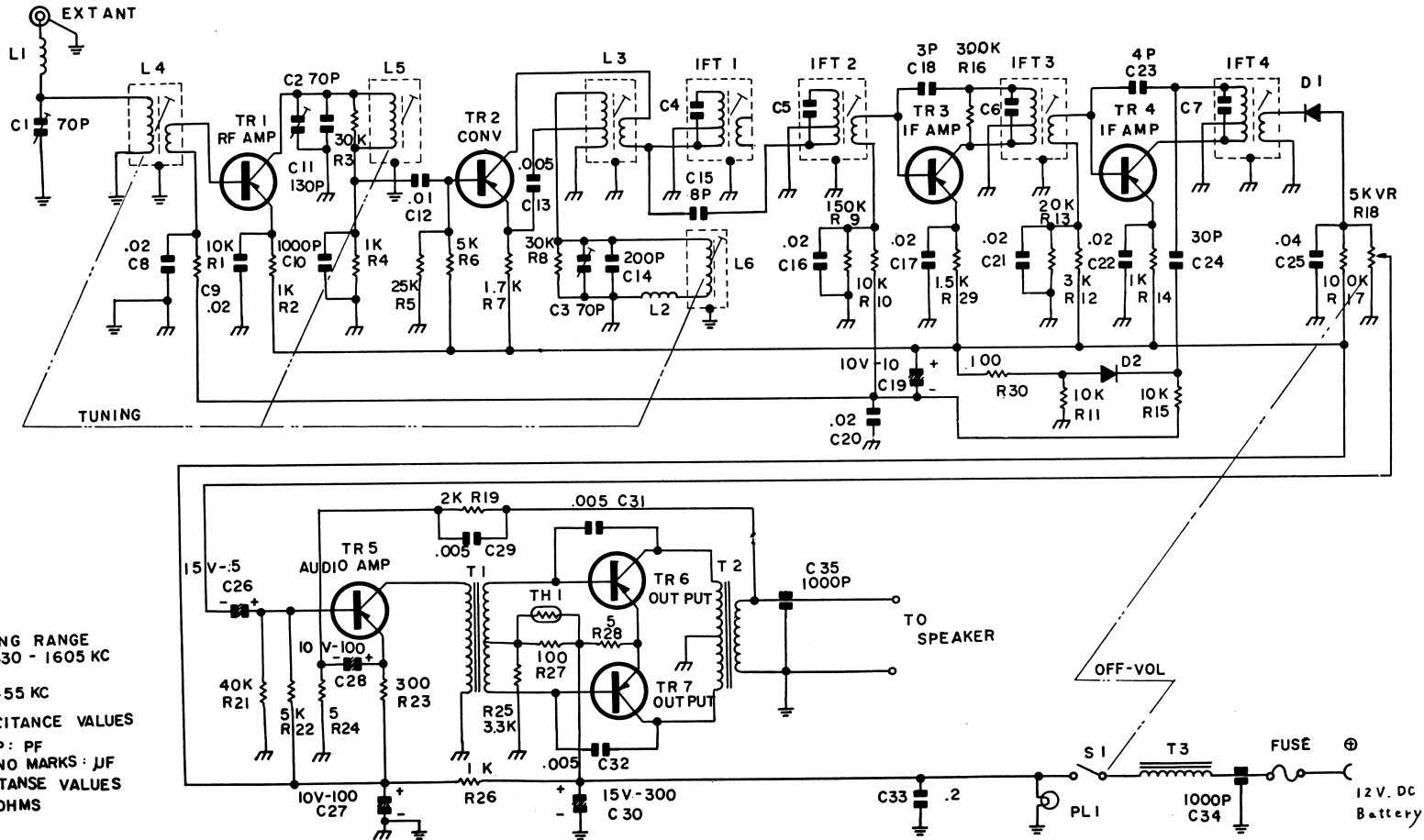
### \*APPOINTED DUMMY ANTENNA



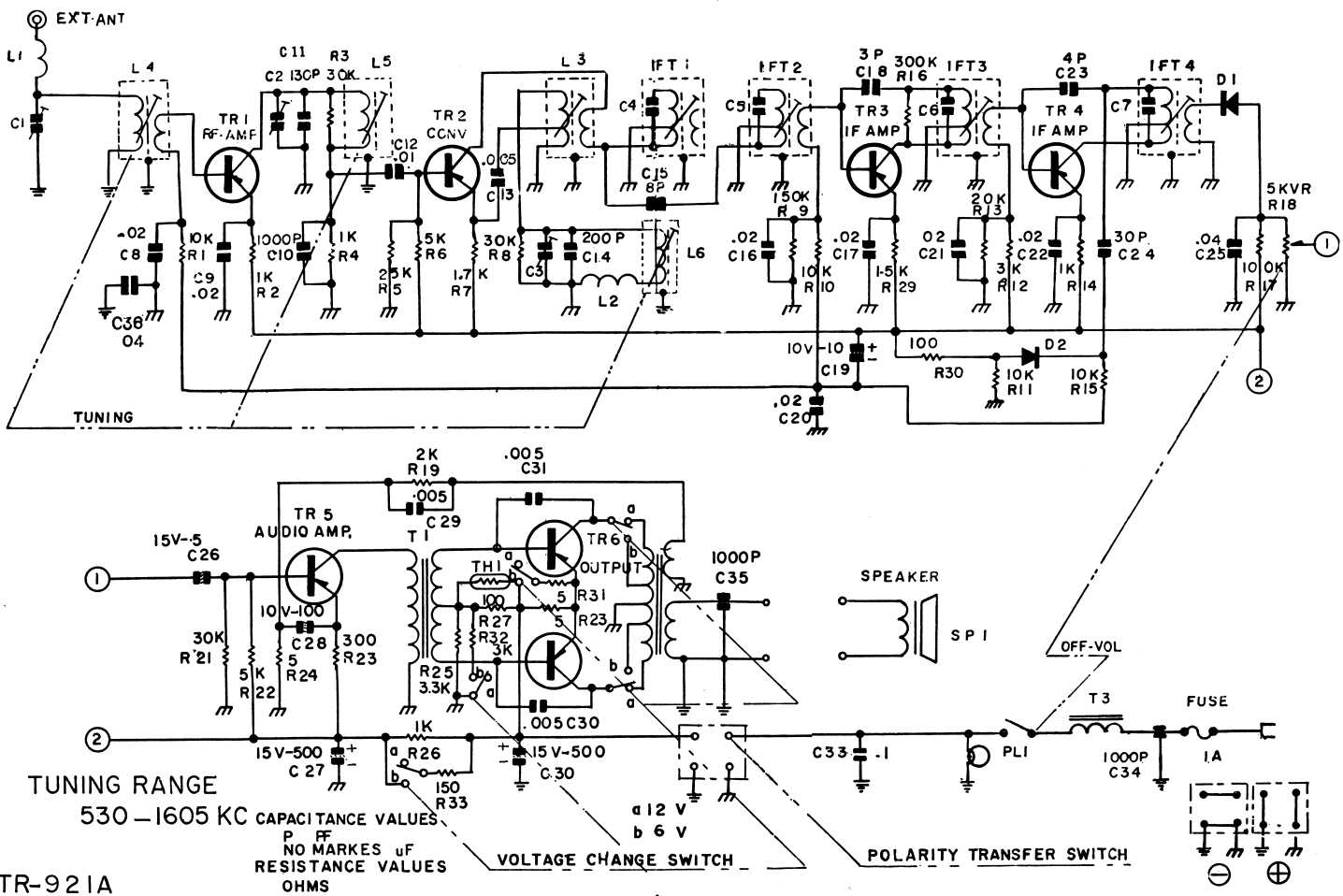
R=80-Z(ohm) Z: Output Impedance of Signal Generator

## SCHEMATIC DIAGRAM (ATR-921)

SHARP ATR-921 ATR-921A



# SCHEMATIC DIAGRAM (ATR-921A)



ATR-921A  
2215

This circuit diagram is original one.  
Therefore there may be a slight difference from your set.