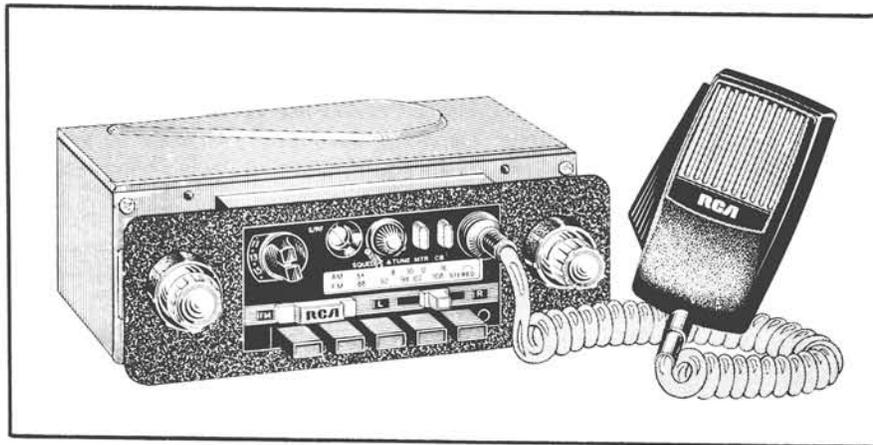


# Service Manual

for

## **RCA CB Co-Pilot**



**Model 14T400**

**Citizens Band Transceiver  
With AM/FM/FM-Stereo Radio**

## IMPORTANT NOTICE

The transmitter section of this transceiver may only be serviced by, or under the direct supervision of a qualified technician having a valid First or Second Class FCC Radiotelephone license. This includes internal adjustments or replacement of crystals, transistors, or any other components which can affect the performance of the transmitter. Servicing should only be done by a licensed, capable technician using suitable equipment and having complete knowledge of proper CB servicing techniques.

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# Typical Specifications

## General

Power Supply Voltage: DC 12 V (11 ~ 15V), Negative ground (13.8 V nom)

Power Consumption:  
RADIO Approx. 8.3 W  
(0.6 A at 0.5 W output,  
DC 13.8 V)

CB TRANSCEIVER: Approx. 11 W  
(0.8 A at non-modulation, DC  
13.8 V)

(All performance specifications measured with 13.8 volts power input.)

Power Output:  
Continuous: 2 x 3.5 W (at 10 % THD)  
Maximum: 2 x 4.0 W (Volume Control at  
max. and Tone Control at treble.)

(Conditions: 400 Hz input signal, 4  $\Omega$  load, 13.8 V DC)

Speaker Impedance: 4 ~ 8  $\Omega$

Transistors: 30

Diodes: 23

ICs: 4

## Transmitter

Channels: 23  
Frequency Range: 26.965 ~ 27.255 MHz  
Frequency Tolerance:  $\pm 0.005$  %  
RF Output Power: 3.5 W  
Modulation Capability: 80 ~ 100 %  
Harmonic and Spurious  
Suppression: -50 dB  
For use with 50  $\Omega$  antenna

## Receivers

### CB RECEIVER

Channels: 23  
Frequency Range: 26.965 ~ 27.255 MHz  
Intermediate  
Frequency: 1st 10.595 ~ 10.635 MHz  
2nd 455 kHz  
Sensitivity: -6 dB/uV for S/N 10 dB  
(at 0.5 W output, DC 13.8 V  
400 Hz, 30 % Mod.)  
5 kHz (at 6 dB down)  
Selectivity:  
Adjacent Channel  
Rejection: 45 dB  
Squelch Sensitivity: 3 dB/uV  
AGC: 60 dB  
Delta Tuning:  $\pm$  Approximately 1 kHz

### AM/FM STEREO RADIO

Frequency Range: AM 535 ~ 1605 kHz  
FM 88 ~ 108 MHz  
Intermediate  
Frequency: AM 450 kHz  
FM 10.7 MHz  
Sensitivity: AM 26 dB/uV  
FM 18 dB/uV for S/N 10 dB  
28 dB/uV for S/N 30 dB  
(at 0.5 W output, DC 13.8 V,  
22.5 kHz Dev.)  
Stereo Separation: 25 dB (at 400 Hz)

## Mechanical

Dimensions: Width: 7-3/8" (188 mm)  
Height: 2-3/4" (70 mm)  
Depth: 4-7/8" (124 mm)  
Weight: Approx. 4.4 lbs (2 kg)

## General Description

The RCA CB Co-Pilot Citizen's Band Transceiver with AM/FM/FM-Stereo, Model 14T400, is a fully transistorized 23 channel citizen's band transceiver and an AM/FM/FM-Stereo radio receiver. Front panel controls and indicators are provided for selection of AM, FM/FM-Stereo, or CB operation. The unit is designed for mobile use and is powered by 11-16 volts DC (13.8V nominal), negative ground only. The unit is especially made for in-dash installation on any car, truck, boat or recreational vehicle.

The AM/FM/FM-Stereo radio has five presettable pushbuttons for selection of five AM and or FM broadcast stations. A manual tuning control is also provided for continuous tuning for both AM and FM stations. Automatic frequency control (AFC) is utilized in the FM receiver for drift-free reception. A front panel balance control provides adjustment of left and right speaker outputs for optimum stereo listening. A front panel fader control permits audio output adjustment between the front and rear stereo speakers if rear speakers are being used.

The CB transceiver provides mobile two-way, AM radio communications in the 26.965 to 27.255 Mhz, Class D citizen's band. Operation on all 23 CB chan-

nels is provided through use of 14 built-in crystals which generate crystal-controlled, synthesized signals for transmission and reception on all 23 channels. A rotary channel selector switch provides for rapid channel selection.

The transmitter circuit is amplitude modulated and is designed to prevent spurious and harmonic radiation of RF frequencies in conformance with FCC regulations. An over-modulation (ALC) circuit prevents over-modulation of the RF carrier. An RF output meter, located on the front panel, monitors the relative output of the transmitter. A dynamic, push-to-talk microphone connects to a jack on the face of the unit. The receiver portion of the CB transceiver will operate with the microphone disconnected.

The CB receiver circuit consists of a dual conversion, superheterodyne circuit, an automatic noise limiter (ANL), automatic gain control (AGC) circuit, a squelch circuit, and a delta tune circuit. The squelch and delta tune circuits are controlled from the front panel. An illuminated signal strength (S) meter indicates the relative strength of the received signal. A front panel mounted push switch permits listening to AM/FM broadcasts while monitoring a selected CB channel. The CB transmitter cannot be used when listening in this mode. An additional push switch activates the unit for full CB operation and disables the AM/FM radio receiver.

## Circuit Description

Figure 1 shows a block diagram of the overall unit. In general, the unit consists of an AM radio, an FM/FM-Stereo radio, and a citizen's band transceiver. The audio power amplifier and the speakers are common to the AM/FM/FM-Stereo and citizen's band transceiver. All functions are selected by front panel mounted switches.

### CB/Radio Selector Switching

Figure 2 shows the CB/RADIO selector switch (SW803) in the RADIO position. In this position the switch (SW803) allows power to be applied to the radio block (AM/FM/FM-Stereo radio). Audio output from the radio block is also switched to the right speaker through the Power Amp/Mod Amp circuit for audio amplification. The left speaker is never switched and always remains in the circuit. MONITOR switch

(SW904) is shown in the OFF position. When this switch is depressed, power is applied to the CB receiver section through the voltage stabilizer (voltage regulator), allowing reception of CB signals while listening to the AM/FM/FM-Stereo radio.

When CB/RADIO selector switch (SW803) is set to the CB position, MONITOR switch (SW904) will have no effect on CB operation. Power is removed from the circuits previously described. Power is now applied to the CB receiver/transmitter sections, through the voltage stabilizer, from CB/RADIO switch (SW803). Microphone audio from the modulator preamp section is switched to the power amplifier/modulation amplifier section after which the amplified audio signal is switched to the input of the modulation transformer (T701). Operating the press-to-talk switch (SW902) at the microphone applies power to

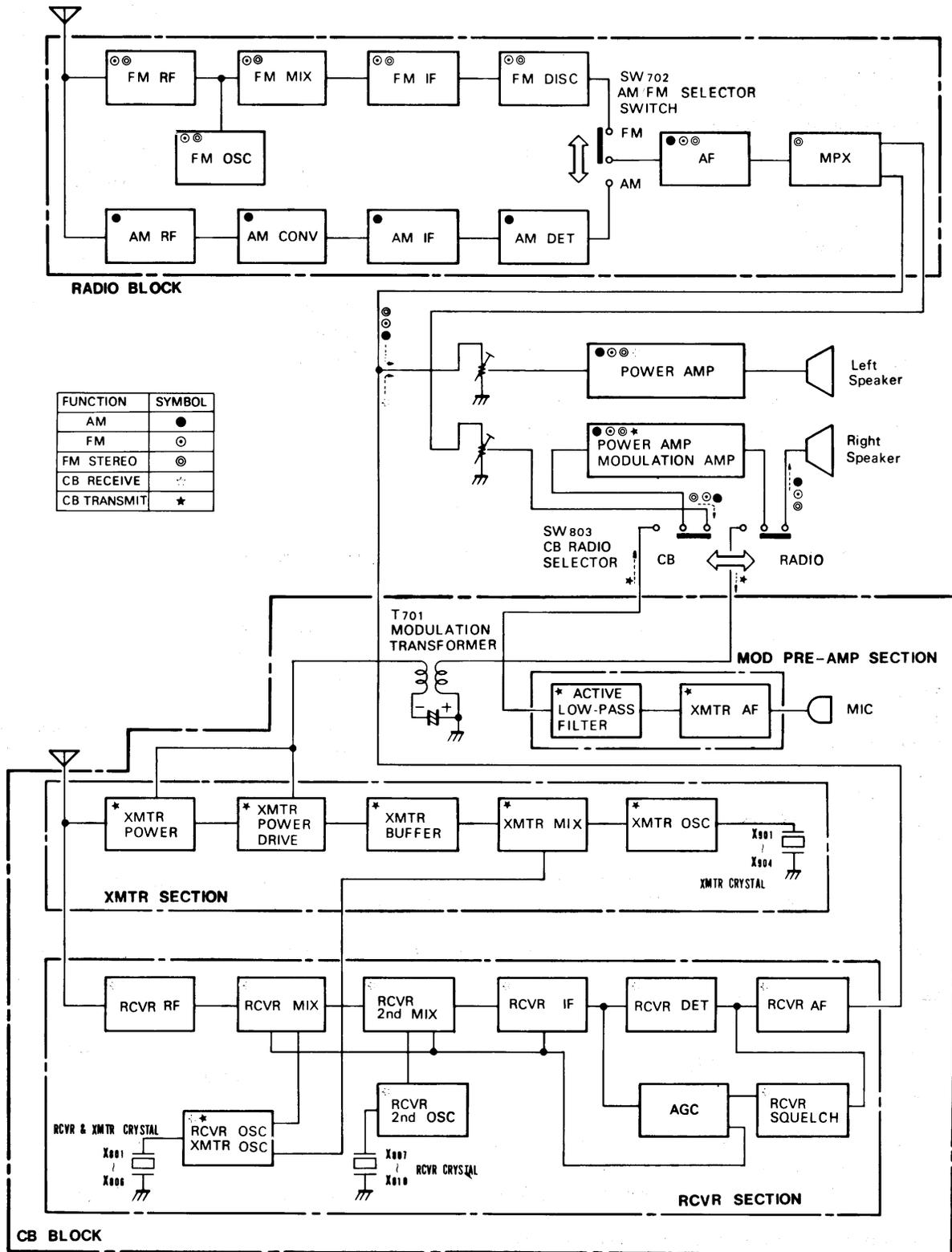


Figure 1. Citizen's Band Transceiver with AM/FM/FM-Stereo Radio, Overall Block Diagram

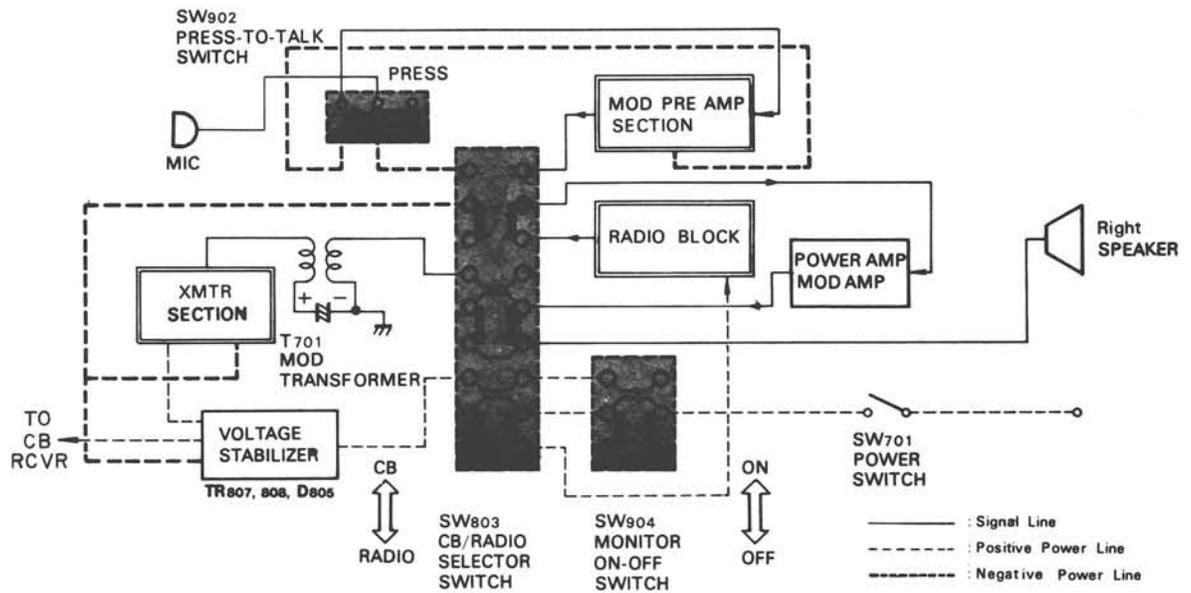


Figure 2. CB/Radio Selector Switching

the modulator preamp section and also completes the microphone audio circuit to the modulator preamp section.

## CB Receiver

The RF signal, at a frequency between 26.965 and 27.255 is applied from the antenna, through the receiver amplifier TR801 to receiver mixer TR802. Refer the Figure 3. A heterodyne signal, at a frequency between 10.95 and 10.365 MHz, is also applied to receiver mixer TR802. This frequency is determined by the channel crystal frequency selected. The output frequency from mixer TR802 is applied to receiver second mixer TR803, along with a signal from the receiver second oscillator. The frequency of this signal has a difference of 455 KHz from that of mixer TR802. The output from mixer TR803 (455 KHz) is fed through ceramic filter CF801 where the overall receiver selectivity is established. The IF output of the ceramic filter is applied to two stages of receiver IF amplification (TR804 and TR805). Output from the two IF amplifiers is applied to the receiver diode detector D802. The audio component from the diode detector is applied to the automatic noise limiter circuit D803.

Noise limiting is accomplished by clipping (diode D803) the noise spikes which are greater in amplitude

than the audio peaks. Refer to Figure 4 for the simplified schematic diagram. The level at which the clipping occurs is controlled by the bias applied to diode D803 through resistor R831. Output from the noise limiter is applied to receiver audio amplifier circuit TR812 along with a squelch control signal from squelch control circuit TR811.

The squelch circuit operates in conjunction with the automatic gain control circuit (AGC TR810). Refer to Figure 5 for the simplified schematic diagram. The detected signal to be heard must pass through audio frequency amplifier TR812. TR812 conducts when it is forward biased. Sufficient forward bias to TR812 is available when squelch control TR811 is cut off. TR811 is cut off when an incoming signal generates enough AGC voltage, developed by the AGC amplifier, to overcome the forward bias level set up by squelch control VR801. Squelch control VR801 can be adjusted to increase or decrease the bias on TR811 to set the squelch threshold at the desired level.

Output from the receiver audio amplifier is applied to power amplifier IC301 and the amplified output applied to the left loudspeaker. All power for receiver operation is supplied by voltage stabilizer TR807, TR808 and D805.

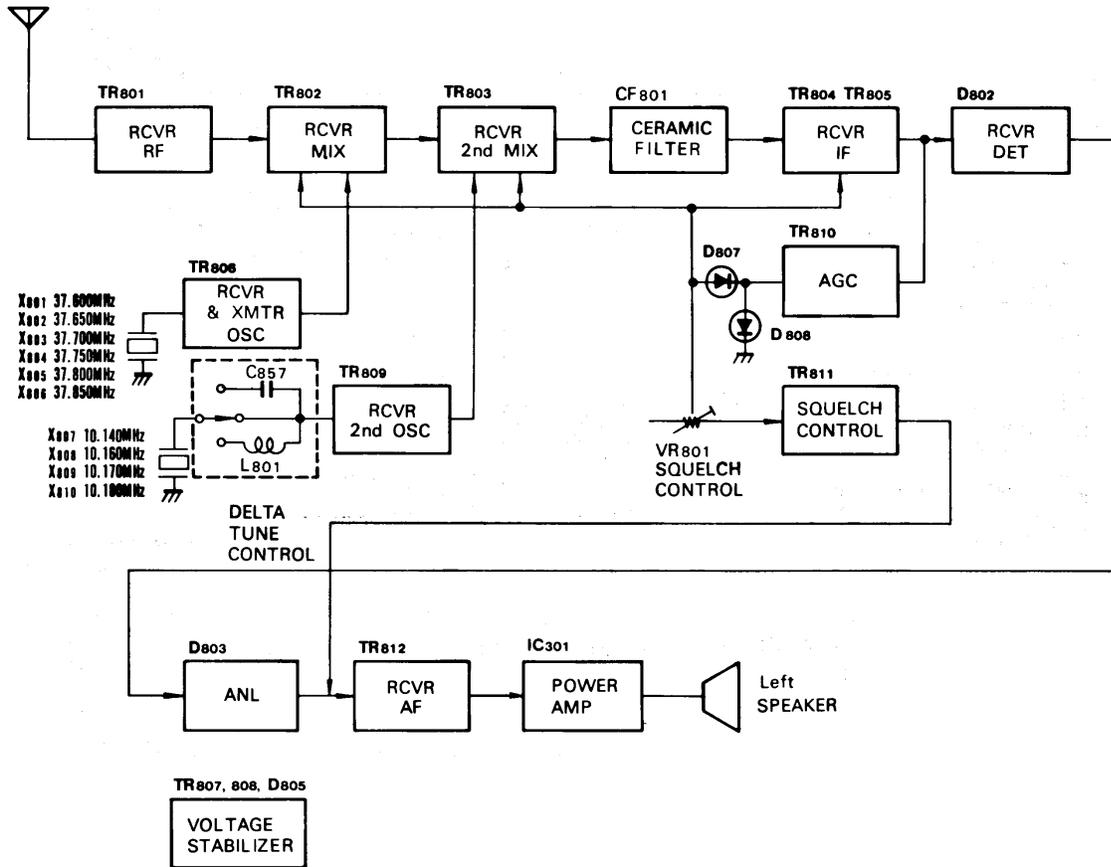


Figure 3. CB Receiver, Simplified Block Diagram

A delta tune circuit is provided for shifting receiver tuning to accommodate a received signal which is off frequency by approximately 1 to 2 KHz. Refer to Figure 6, the simplified schematic diagram. A delta tune switch inserts either a capacitor (C857) or an inductor (L801) in series with the second oscillator crystal in use, and the base of transistor TR809. Inserting the capacitor raises the crystal oscillator frequency. Inserting the inductor lowers the crystal oscillator frequency.

## CB Transmitter

The transmitter RF carrier frequency is generated by heterodyning the frequencies of a 10 MHz crystal oscillator with the frequency of a 37 MHz crystal oscillator. The exact frequencies are determined by the crystals selected by the channel selector switch. Heterodyning takes place in transmitter mixer TR904. The output difference frequency of 27 MHz is ampli-

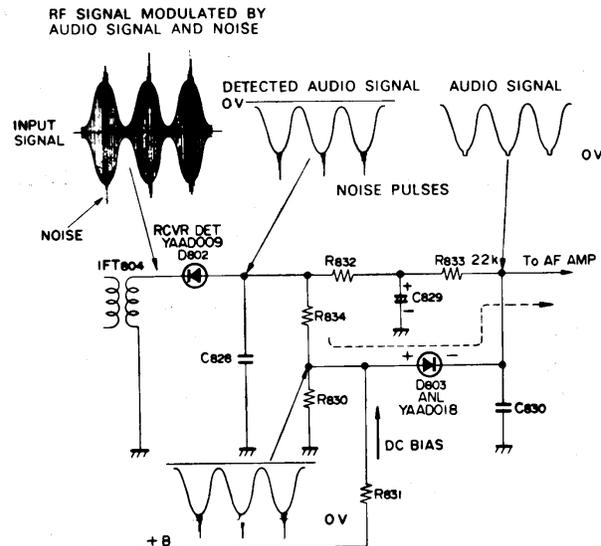


Figure 4. Automatic Noise Limiter Circuit (ANL), Simplified Schematic Diagram

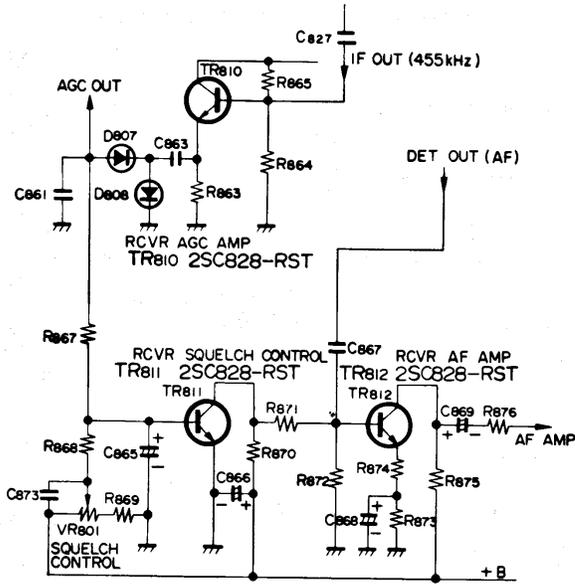


Figure 5. Automatic Gain Control (AGC) and Squelch Circuit, Simplified Schematic Diagram

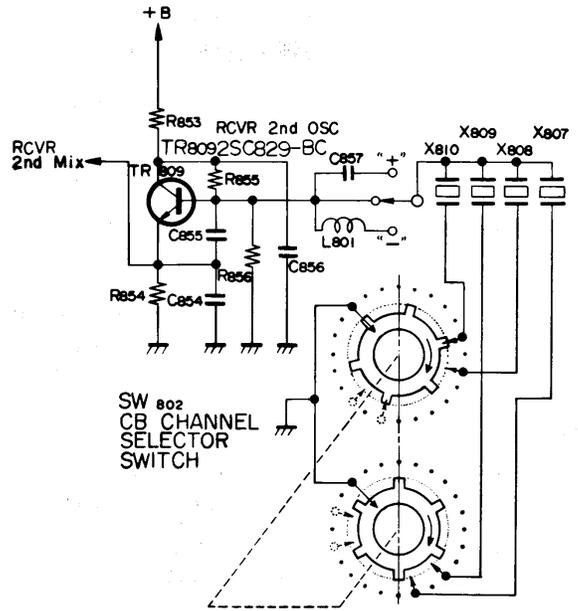


Figure 6. Delta Tune Circuit, Simplified Schematic Diagram

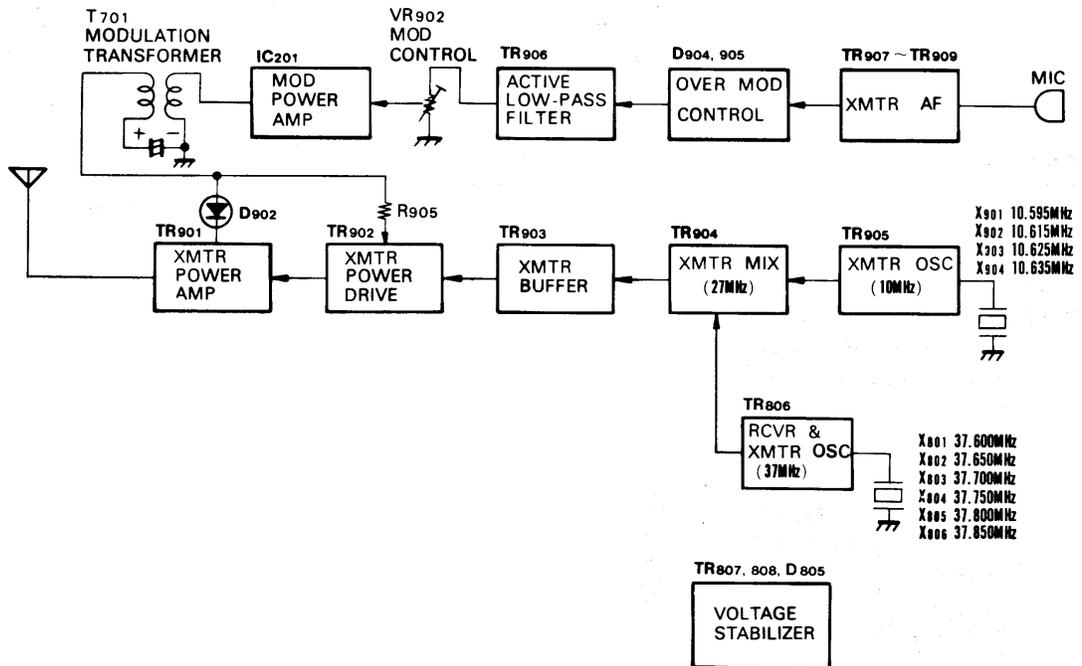


Figure 7. CB Transmitter, Simplified Block Diagram

fied by buffer stage TR903 and power drive TR902. This signal is then applied to power amplifier TR901 for final amplification.

Audio from the microphone is amplified to the desired level by speech amplifiers TR907, TR908 and TR909. To avoid overmodulation, this amplified audio is applied to an overmodulation control circuit consisting of diodes DS904 and DS905. The diodes are biased to clip excessive audio positive and negative peaks. This allows a higher average audio power to be maintained while maintaining 100% amplitude modulation.

Audio from the overmodulation control circuit is processed by active low pass filter TR906 which allows only the effective audio voice frequencies to be ampli-

fied. The processed audio is applied to modulator power amplifier IC201. Modulation of the last two RF transmitter output stages (TR901 and TR902) is accomplished by modulation transformer T701. Internally mounted modulation control VR902 sets the modulation level.

## AM/FM/FM-Stereo Radio

The radio portion of this unit is shown in Figure 8. AM/FM selector switch, SW702, determines which function is in operation. A stereo LED indicator (D154) on the front panel lights when a stereo transmission is being received. Front panel controls are provided for balancing of the left and right speakers and also for setting the level of the rear speakers if they are used.

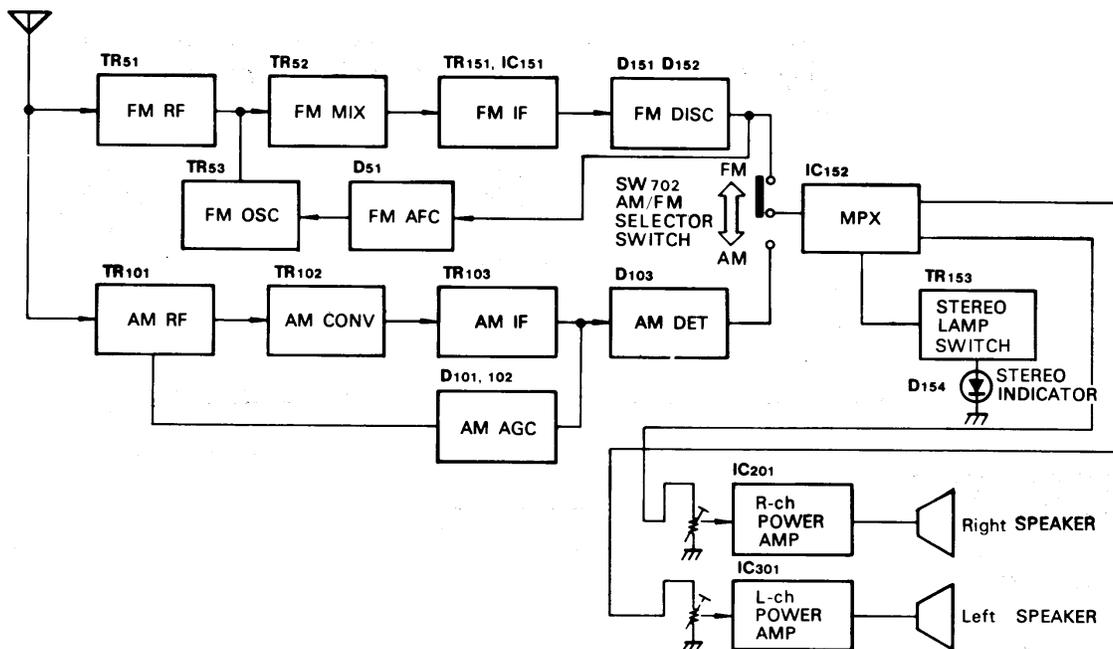


Figure 8. AM/FM/FM-Stereo Radio Simplified Block Diagram

# Test Equipment

The following test equipment is required and recommended for servicing the 14T400 Transceiver with AM/FM/FM-Stereo radio.

1. A 50 ohm resistive antenna load with a power capability of 5 watts or more, such as Bird Model 43 "thru line" wattmeter with a 5A Element and a Model 8053 RF Coaxial Load Resistor, or equivalent.
2. A frequency counter operable in the required CB range, such as Hewlett-Packard Model HP 5283A or suitable equivalent.
3. A HF Signal Generator which operates in the 50 kHz to 65 MHz frequency range with + 1% accuracy, such as Hewlett-Packard HP-606B, Wavetek Model 3000 or equivalent.
4. An oscilloscope capable of accurate monitoring of 27 MHz range AM signals.
5. High Input impedance Electronic Voltmeter such as a WV-500B or equivalent.
6. An 4 ohm 5 watt resistive dummy speaker load.
7. An Audio Signal Generator.
8. An RF Voltmeter. (WV-500B with WG-301A Probe)
9. A bench DC power supply capable of supplying a regulated 13.8 V DC @ at least 2 amperes.
10. A VHF radio receiver capable of tuning in the 54.3 MHz range, or a TV set if available (for adjustment of the TV interference trap L465).
11. An FM signal generator operating at 10.7 MHz and between 86 – 110 MHz, capable of being modulated 30% ( $\pm 22.5$  kHz).
12. A stereo signal generator.
13. A sweep generator operating at frequencies of 450 kHz and 10.7 MHz.

# Servicing

## General

Performance of the RCA 14T400 Co-Pilot Citizen's Band Transceiver with AM/FM/FM-Stereo Radio depends upon the high quality of components employed and proper servicing techniques performed by licensed and fully qualified technical personnel. Use only replacement parts as listed in the parts list at the end of this service manual.

Illustrations to aid in servicing and adjustment, including exploded views, are provided to assist in locating and identifying components, test points and

adjustment points. Wiring diagrams are shown in Figures 14 and 15 and schematic diagrams are shown in Figures 16 and 17. Major mechanical components are illustrated in the exploded view, Figure 19.

When servicing the transmitter section of the unit, always have a five watt dummy load connected to the antenna terminal to avoid damage to transistors. When servicing the receiver, remove the microphone to avoid possible damage to test equipment that may be attached to the antenna terminal.

# ALIGNMENT INSTRUCTIONS

## AM/FM/FM Radio Receiver Alignment

Figure 9 shows connections required for performing the alignment procedures that follow. Figure 10 shows the locations of all test points and adjustments.

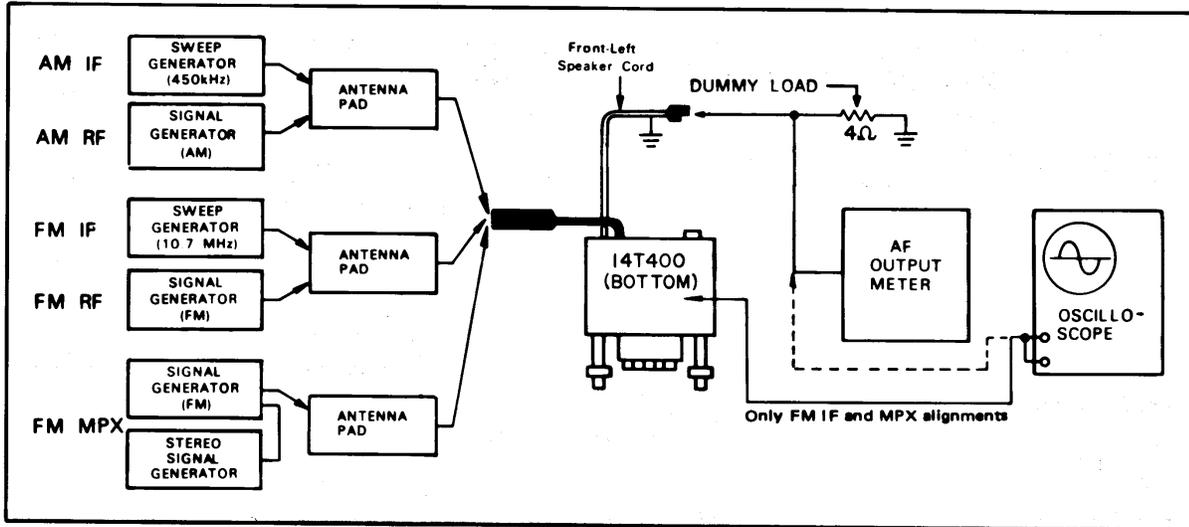


Figure 9. Test Connections for Alignment of the AM/FM/FM Radio

### AM (I-F & RF) ALIGNMENT

- Set Volume Control at maximum, and Tone Control in the treble position.
- Set Band Selector Switch in AM.
- Set Balance Control in center.
- Connect the signal generator to the antenna receptacle through the antenna pad. (Fig. 1)
- Keep the signal generator output low enough to prevent overloading the circuit.

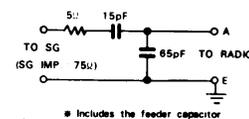


Fig. 1 Antenna Pad

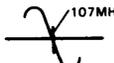
	STEP	GENERATOR FREQUENCY	BAND SELECTOR SETTING	RADIO-DIAL SETTING	SIGNAL FEED POINT	INDICATOR CONNECTION	ADJUST	REMARKS
AM	I F	450 kHz [Unmodulated or 400 Hz Mod.]	AM	Point of non-interference (on/about 600 kHz)	Through pad (Fig.1) to Antenna receptacle	Between Point (A) and ground or speaker terminals	IFT102 IFT101	Adjust for maximum
		505 kHz [400 Hz Mod.]	"	Low freq. end stop.	"	Output meter across speaker terminals	L104 (OSC)	"
		1650 kHz [400 Hz Mod.]	"	High freq. end stop.	"	"	C114 (OSC)	"
	R F	1400 kHz [400 Hz Mod.]	"	Tune to signal	"	"	C108 (RF) C102 (ANT)	"

- When radio is installed in car, antenna fully extended, tune in a weak station near 1400 kHz and adjust C102 for maximum output.
- Refer to ANTENNA TRIMMER ALIGNMENT, page 1.
- Repeat steps, two or three times.

## FM (I-F & RF) ALIGNMENT

### • FM I-F ALIGNMENT USING FM SIGNAL GENERATOR AND SWEEP GENERATOR

- Volume, Tone and Balance Control may be left in any position.
- Set Band Selector Switch in FM.
- Keep the signal generator output low enough to prevent overloading the circuit.

	STEP	GENERATOR FREQUENCY	RADIO-DIAL SETTING	SIGNAL FEED POINT	INDICATOR CONNECTION	ADJUST	REMARKS
FM	●	10.7 MHz	Point of non-interference	Through pad (Fig.3) to Antenna receptacle	Vert. amp. of scope to point (A), low side to ground	IFT51	Adjust for maximum amplitude and proper linearity between 100 kHz markers. 
	●~●	"	"	"	"	IFT151 IFT152	

★ Repeat steps 7, 8 & 9 two or three times.

Fig. 2

### • FM RF ALIGNMENT

- Set Volume Control at maximum and the Tone Control in the treble position.
- Set Band Selector Switch in FM.
- Set Balance Control in center.
- Keep the signal generator output low enough to prevent overloading the circuits.
- Connect the signal generator to the antenna receptacle through the antenna pad, (Fig. 3)

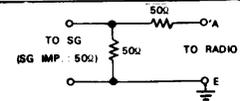


Fig. 3 Antenna Pad

	STEP	GENERATOR FREQUENCY	RADIO-DIAL SETTING	SIGNAL FEED POINT	INDICATOR CONNECTION	ADJUST (FM Tuner Ass'y)	REMARKS
FM	●	86.0 MHz [400 Hz Mod.]	Low freq. end stop.	Through pad (Fig.3) to Antenna receptacle.	Output meter across speaker terminals.	C73 (OSC)	★ Adjust for maximum ★ Repeat steps two or three times.
RF	●~●	98.0 MHz [400 Hz Mod.]	Tune to signal	"	"	C63 (RF) C55 (ANT)	

★ In step ●, adjust lower frequency at 86.0 MHz. The upper frequency will be within 108 ~ 110 MHz, because of design characteristics. It is nonadjustable.

NOTE: Test Point (A) is the AM/FM Selector Switch in the base circuit of transistor TR152.

## MULTIPLEX ALIGNMENT USING FM SIGNAL GENERATOR AND STEREO SIGNAL GENERATOR

- Set Volume Control at maximum, and Tone Control in the treble position.
- Set Band Selector Switch in FM.
- Set Balance Control in center.
- Connect the signal generator to the antenna receptacle through the antenna pad, (Fig. 3)
- Keep the signal generator output low enough to prevent overloading the circuits.
- FM Signal Generator should be modulated by Stereo Signal Generator.

Modulation level: 19 kHz 10%  
400 Hz 30%

FM Signal Generator output level: 1 mV

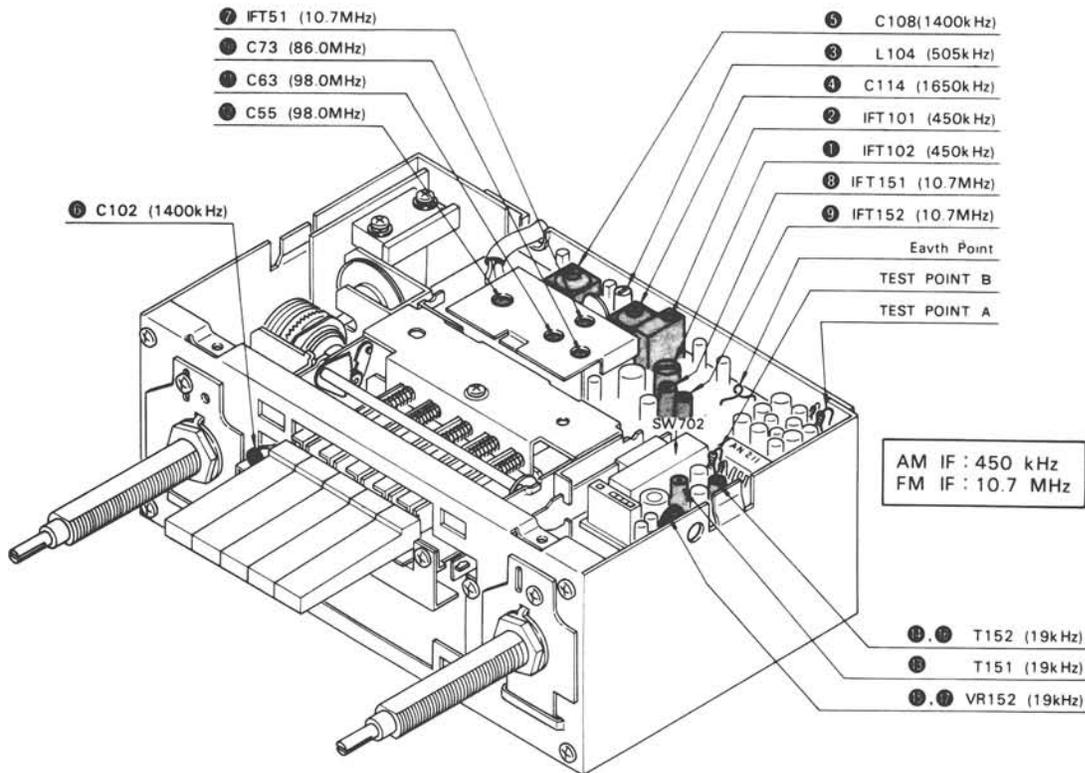
FM Signal Generator frequency: 98 MHz

STEP	MODULATION FREQUENCY	INDICATOR	ADJUST	REMARKS	
F M	●	19 kHz	Vert. Amp. of scope to Test Point (B), Low side to ground	T151	Adjust for maximum Set semi-fixed resistor (VR152) to middle position.
	● ~ ●	19 kHz 400 Hz (Right channel)	VTVM to Left speaker terminals	T152 VR152	Adjust for minimum.
M P X	● ~ ●	19 kHz 400 Hz (Left channel)	VTVM to Right speaker terminals	T152 VR152	Adjust for minimum

\* Repeat steps ● ~ ● two or three times.

NOTE: 1) In step ●, input impedance of oscilloscope should be more than  $1M\Omega$  and less than 40 pF, including the scope probe's resistance and capacitance.

2) Test Point (B) is shown in the Schematic and Wiring Diagrams. It is terminal No.1 on IC152.



Numbers in ● are indicated ALIGNMENT STEPS.

Figure 10. AM/FM/FM-Stereo Radio, Location of Test Points and Adjustments (Bottom panel removed)

# CB Transmitter Alignment

Figure 11 shows connections required for performing the alignment procedures for the CB transmitter section.

Figure 12 shows the locations of all test points and adjustments.

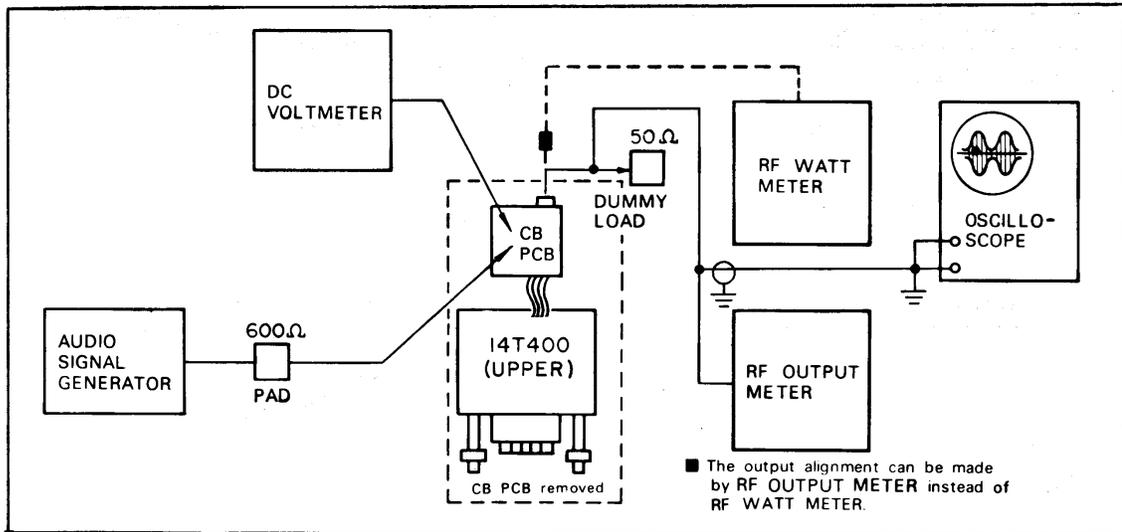
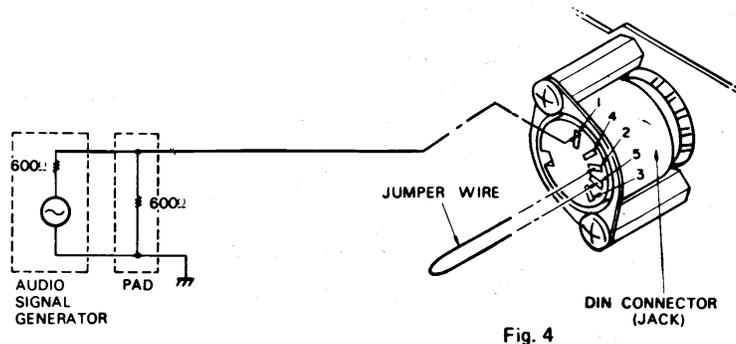


Figure 11. Test Connections for Alignment of the CB Transmitter Section

## ● OSCILLATOR ALIGNMENT

- Set CB Channel Selector Switch to Channel 13.
- Insert the shorting wire into the DIN connector terminals No. 2 & 5, (Fig. 4)



STEP	ADJUST	INDICATOR CONNECTION	REMARKS
●	T803	DC voltmeter between Point C and ground.	Adjust to 60% position of maximum level. (1.5V)

Fig. 5

## ● OUTPUT ALIGNMENT

- Set CB Channel Selector Switch to Channel 13.
- Connect the dummy load to the CB antenna connector. (Fig. 6)
- Insert the shorting wire into the DIN connector terminals No. 2 & 5. (Fig. 4)

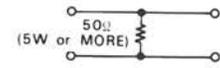


Fig. 6 Dummy Load for RF Output

STEP	ADJUST	INDICATOR CONNECTION	REMARKS
②	T903	RF output meter across dummy load (Fig. 6) or watt meter to CB antenna connector directly.	Adjust for maximum.
③	T904		
④	T902		
⑤	L905		
⑥	L903		

\* Repeat steps ② & ③ two or three times.

## ● MODULATION ALIGNMENT

- Set CB channel Selector Switch to Channel 13.
- Connect the audio signal generator to the DIN connector terminal No. 1 (Fig. 4) through the 600-ohm pad (Fig. 7).
- Insert the jumper wire into the DIN connector terminals No. 2 & 5. (Fig. 5)

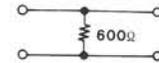


Fig. 7 Pad for Mod

STEP	GENERATOR FREQUENCY	ADJUST	INDICATION CONNECTION	REMARKS	$MOD (\%) = \frac{A - B}{A + B} \times 100$
①	1 kHz, -52 dBm (2 mV)	RV902	Oscilloscope across CB antenna connector through dummy load (Fig. 6).	Adjust for 100% modulation as follows.	

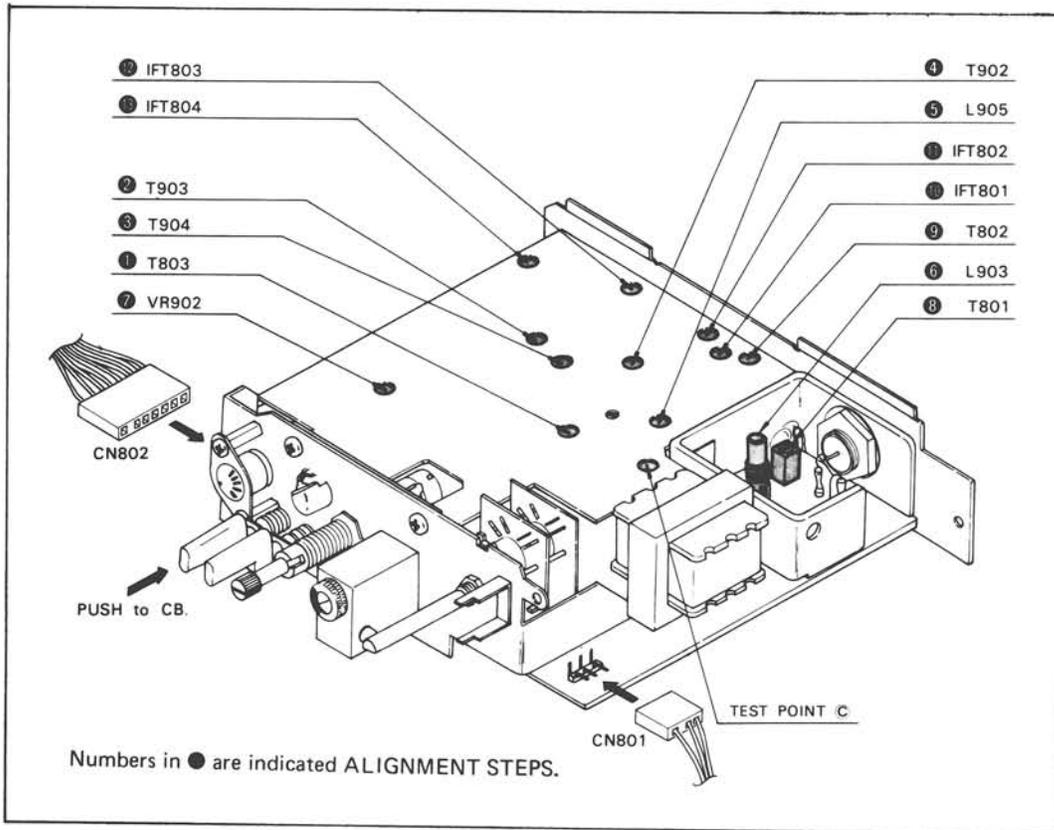


Figure 12. CB Transceiver, Locations of all Test Points and Adjustments

# CB Receiver Alignment

Figure 13 shows connections required for performing the alignment procedures for the CB receiver section.

Figure 12 shows the locations of all test points and adjustments.

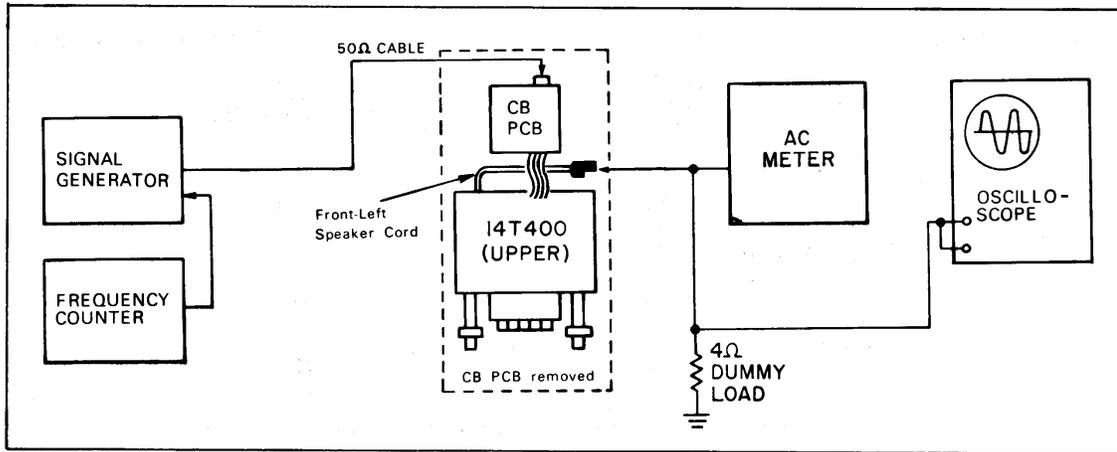


Figure 13. Test Connections for Alignment of the CB Receiver Section

- Set the CB Channel Selector Switch to Channel 13.
- Set the Delta Tune Control in its center position.
- Set the Squelch Control in the full-counterclockwise position.
- Set the Tone Control in the treble position (clockwise).
- Set the Balance Control in its center position.
- Signal Generator should be modulated as follows.  
 Modulation level 1 kHz, 30%  
 Signal generator output level 5 uV approx.
- Set the Volume Control for a 1 volt ac output across the 4 ohm dummy load.

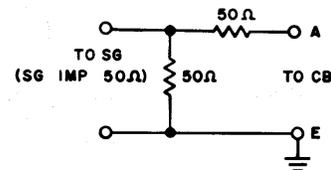


Fig. 8 Antenna Pad

STEP	GENERATOR FREQUENCY	SIGNAL FEED POINT	ADJUST	INDICATOR CONNECTION	REMARKS
8	Ch 13 (27.115 MHz)	CB antenna connector through 50 cable	T801	Output meter across speaker terminals.	Adjust for maximum. Reduce signal generator level after each adjustment to maintain a 1 volt output indication across the 4 ohm dummy load.
9			T802		
10			IFT801		
11			IFT802		
12			IFT803		
13			IFT804		
* Repeat steps two or three times.					

- NOTE: 1) Should be connected to the RF wattmeter on transmitter alignment.  
 2) Use the insulated screwdriver for VR902 alignment (Step 2 ).  
 3) Use the nontallic screwdriver for alignment of L903 & L905 (steps 5 & 6 ).  
 4) To be connected to CN801 and CN802 during CB alignment.  
 5) Test Point C is shown in the Schematic and Wiring Diagrams. It is next to R845.  
 (Refer to the OSCILLATOR ALIGNMENT.)

## CB CHANNELS AND FREQUENCIES

CB CHANNEL	FREQUENCY
1	26.965 MHz
2	26.975 MHz
3	26.985 MHz
4	27.005 MHz
5	27.015 MHz
6	27.025 MHz
7	27.035 MHz
8	27.055 MHz
9	27.065 MHz
10	27.075 MHz
11	27.085 MHz
12	27.105 MHz

CB CHANNEL	FREQUENCY
13	27.115 MHz
14	27.125 MHz
15	27.135 MHz
16	27.155 MHz
17	27.165 MHz
18	27.175 MHz
19	27.185 MHz
20	27.205 MHz
21	27.215 MHz
22	27.225 MHz
23	27.255 MHz

### TRANSMIT CRYSTAL COMBINATIONS FOR CHANNELS 1 TO 23

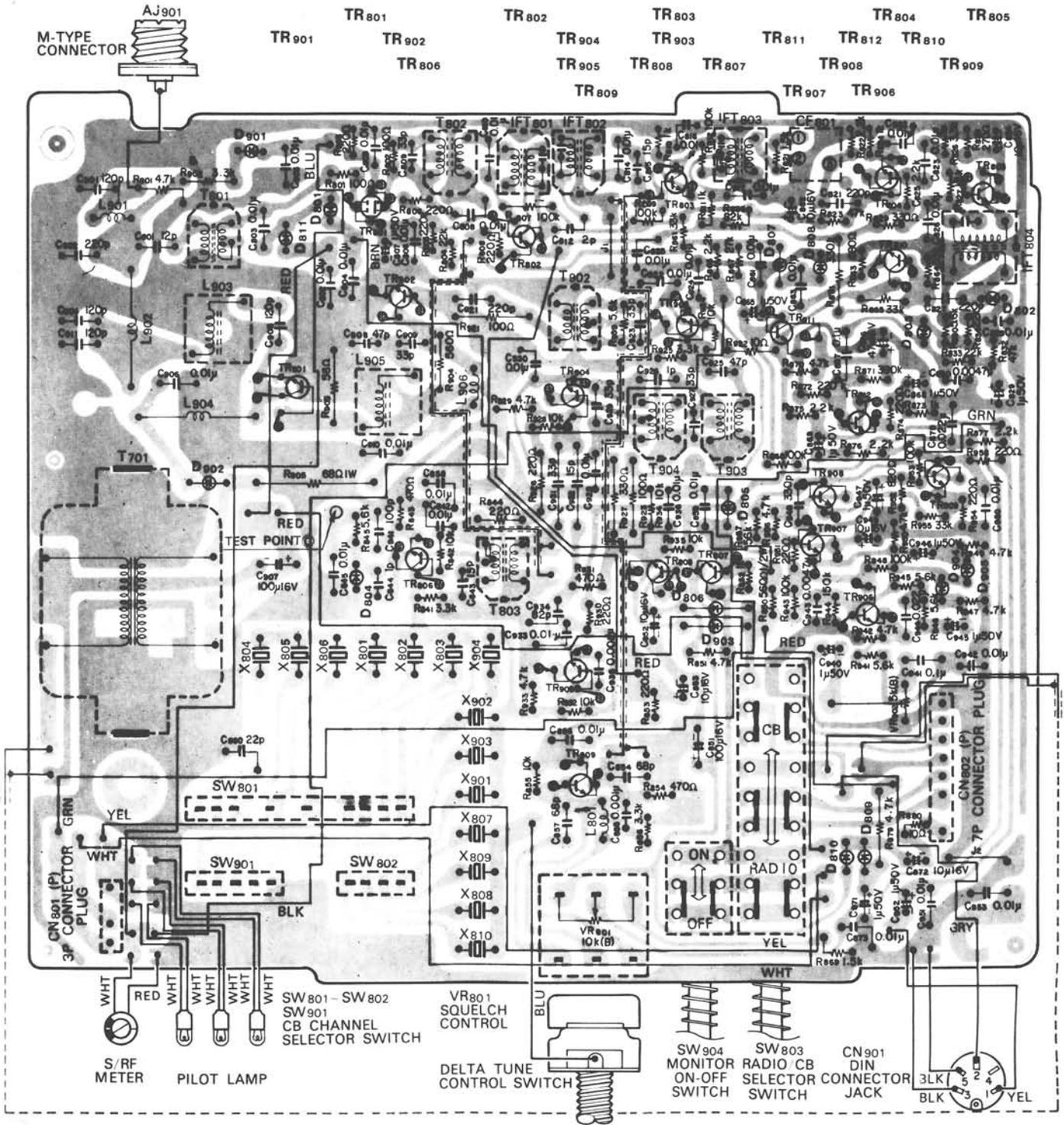
TRANSMIT CRYSTAL	COMMON CRYSTAL					
	37.6 MHz (X801)	37.65 MHz (X802)	37.7 MHz (X803)	37.75 MHz (X804)	37.8 MHz (X805)	37.85 MHz (X806)
10.635 MHz (X904)	1	5	9	13	17	21
10.625 MHz (X903)	2	6	10	14	18	22
10.615 MHz (X902)	3	7	11	15	19	—
10.595 MHz (X901)	4	8	12	16	20	23

### RECEIVE CRYSTAL COMBINATIONS FOR CHANNELS 1 TO 23

RECEIVE CRYSTAL	COMMON CRYSTAL					
	37.6 MHz (X801)	37.65 MHz (X802)	37.7 MHz (X803)	37.75 MHz (X804)	37.8 MHz (X805)	37.85 MHz (X806)
10.18 MHz (X810)	1	5	9	13	17	21
10.17 MHz (X809)	2	6	10	14	18	22
10.16 MHz (X808)	3	7	11	15	19	—
10.14 MHz (X807)	4	8	12	16	20	23

FIRST OSC (X801 ~ X806) — INCOMING SIGNAL (1ch ~ 23ch) — SECOND OSC (X810 ~ X807) = 455 kHz (SECOND IF)

**CB BLOCK**



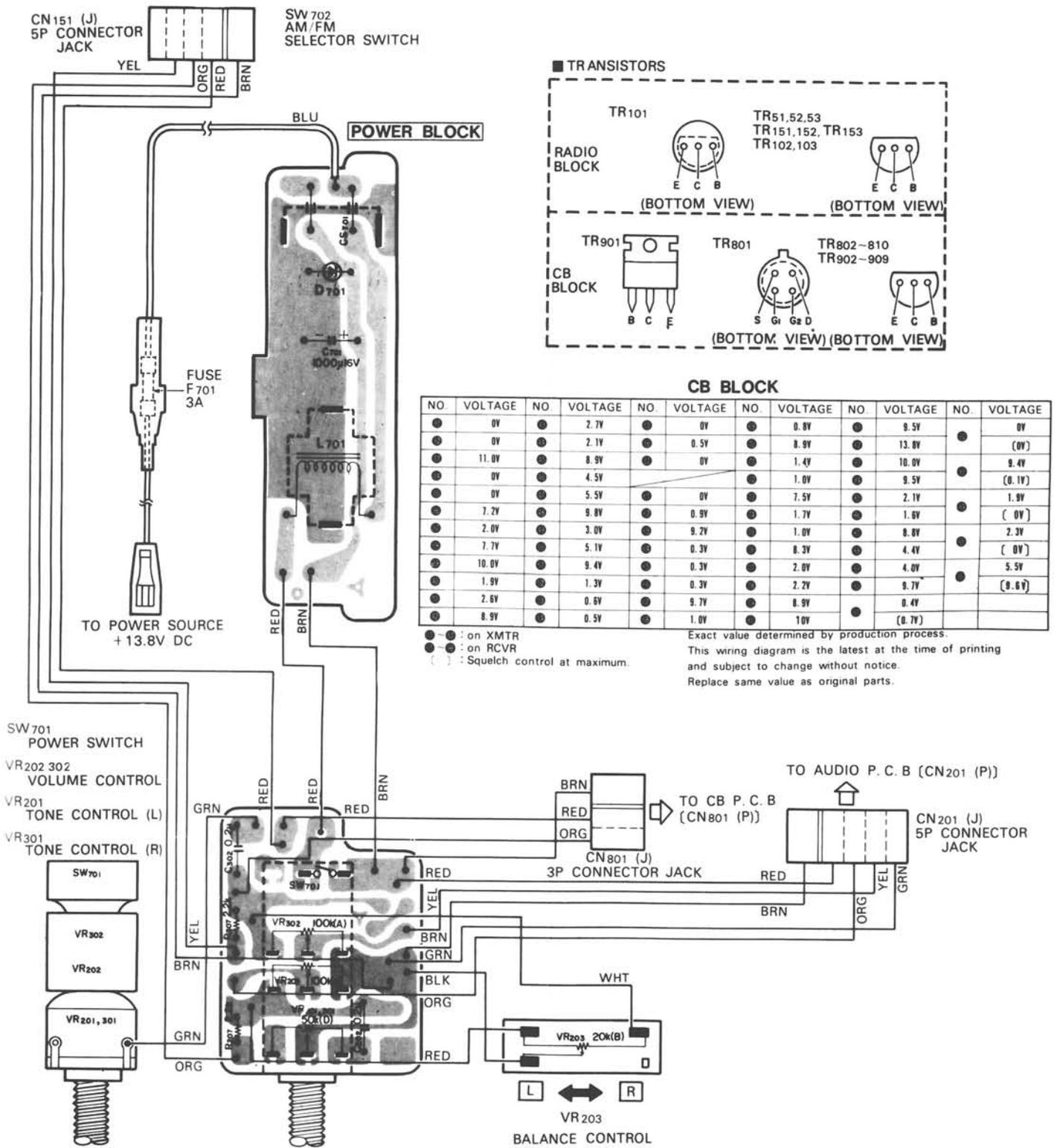


Figure 14. CB Transceiver, Power Block, and Controls, Wiring Diagram

# Replacement Parts

Order parts by RCA stock numbers through your local  
RCA Distributor.

SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
<b>CB BLOCK</b>					
<b>Capacitors</b>					
C801	742042	Capacitor, Ceramic, 12 pp, 50 ww $\pm 10\%$	C868	742024	Capacitor, Electrolytic, 1 uf, 50 ww
C802	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C869	742024	Capacitor, Electrolytic, 1 uf, 50 ww
C803	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C870	742026	Capacitor, Polyester Film, 0.022 uf, 50 ww, $\pm 20\%$
C804	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C871	742024	Capacitor, Electrolytic, 1 uf, 50 ww
C805	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100%, -0%	C872	742024	Capacitor, Electrolytic, 10 uf, 16 ww
C806	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C873	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$
C807	742024	Capacitor, Electrolytic, 1 uf, 50 ww	C881	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C808	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C882	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C809	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$	C883	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C810	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C884	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C812	742043	Capacitor, Ceramic, 2 pf, 50 ww, $\pm 0.25\%$	C885	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C814	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C886	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C815	742041	Capacitor, Ceramic, 15 pf, 50 ww, $\pm 10\%$	C901	742034	Capacitor, Ceramic, 120 pf, 50 ww, 10%
C816	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C902	742033	Capacitor, Ceramic, 220 pf, 50 ww, $\pm 10\%$
C817	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C903	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%
C821	742033	Capacitor, Ceramic, 220 pf, 50 ww, $\pm 10\%$	C904	742034	Capacitor, Ceramic, 120 pf, 50 ww, $\pm 10\%$
C822	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$	C905	742034	Capacitor, Ceramic, 120 pf, 50 ww, $\pm 10\%$
C823	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$	C906	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C824	742023	Capacitor, Electrolytic, 10 uf, 16 ww	C907	742021	Capacitor, Electrolytic, 100 uf, 16 ww
C826	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$	C908	742037	Capacitor, Ceramic, 68 pf, 50 ww, $\pm 10\%$
C827	742033	Capacitor, Ceramic, 220 pf, 50 ww, $\pm 10\%$	C909	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C829	742024	Capacitor, Electrolytic, 1 uf, 50 ww	C910	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C830	742030	Capacitor, Polyester Film, 0.0047 uf, 50 ww, $\pm 10\%$	C911	742034	Capacitor, Ceramic, 120 pf, 50 ww, $\pm 10\%$
C835	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%	C921	742033	Capacitor, Ceramic, 220 pf, 50 ww, $\pm 10\%$
C841	742035	Capacitor, Ceramic, 100 pf, 50 ww, $\pm 10\%$	C922	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100, -0%
C842	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C923	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C843	742041	Capacitor, Ceramic, 15 pf, 50 ww, $\pm 10\%$	C924	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C844	742044	Capacitor, Ceramic, 1 pf, 50 ww, $\pm 0.25\%$	C925	742038	Capacitor, Ceramic, 47 pf, 50 ww, $\pm 10\%$
C845	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C926	742044	Capacitor, Ceramic, 1 pf, 50 ww, $\pm 0.25\%$
C851	742021	Capacitor, Electrolytic, 100 uf, 16 ww	C927	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C852	742023	Capacitor, Electrolytic, 10 uf, 16 ww	C928	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C853	742023	Capacitor, Electrolytic, 10 uf, 16 ww	C929	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C854	742037	Capacitor, Ceramic, 68 pf, 50 ww, $\pm 10\%$	C930	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C855	742031	Capacitor, Polyester Film, 0.001 uf, 50 ww, $\pm 10\%$	C931	742039	Capacitor, Ceramic, 33 pf, 50 ww, $\pm 10\%$
C856	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C932	742041	Capacitor, Ceramic, 15 pf, 50 ww, $\pm 10\%$
C857	742037	Capacitor, Ceramic, 68 pf, 50 ww, $\pm 10\%$	C933	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$
C859	742029	Capacitor, Ceramic, 0.01 uf, 50 ww, $\pm 10\%$	C934	742036	Capacitor, Ceramic, 82 pf, 50 ww, $\pm 10\%$
C860	742040	Capacitor, Ceramic, 22 pf, 50 ww, $\pm 10\%$	C935	742031	Capacitor, Polyester Film, 0.001 uf, 50 ww, $\pm 10\%$
C861	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$	C936	742028	Capacitor, Ceramic, 0.01 uf, 50 ww, + 100%, -0%
C862	742024	Capacitor, Electrolytic, 10 uf, 16 ww	C940	742024	Capacitor, Electrolytic, 1 uf, 50 ww
C863	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$	C941	742025	Capacitor, Ceramic, 0.011 uf, 12 ww, $\pm 20\%$
C865	742024	Capacitor, Electrolytic, 1 uf, 50 ww	C942	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, $\pm 20\%$
C866	742022	Capacitor, Electrolytic, 47 uf, 16 ww	C943	742030	Capacitor, Polyester Film, 0.0047 uf, 50 ww, $\pm 10\%$
C867	742025	Capacitor, Ceramic, 0.1 uf, 12 ww, $\pm 20\%$	C944	742026	Capacitor, Polyester Film, 0.022 uf, 50 ww, $\pm 20\%$
			C945	742024	Capacitor, Electrolytic, 1 uf, 50 ww
			C946	742024	Capacitor, Electrolytic, 1 uf, 50 ww
			C947	742024	Capacitor, Electrolytic, 1 uf, 50 ww
			C948	742032	Capacitor, Ceramic, 330 pf, 50 ww, $\pm 10\%$
			C949	742023	Capacitor, Electrolytic, 10 uf, 16 ww

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SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
C950	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, ±20%	R902	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
C951	742027	Capacitor, Polyester Film, 0.01 uf, 50 ww, ±20%	R903	741884	Resistor, Carbon, 56 Ohms, 1/8 w, ±5%
C952	742024	Capacitor, Electrolytic, 1 uf, 50 ww	R904	227741	Resistor, Carbon, 560 Ohms, 1/4 w, ±5%
		<b>Resistors</b>	R905	241796	Resistor, Metal Oxide, 68 Ohms, 1 w, ±5%
R801	246910	Resistor, Carbon, 100 Ohms, 1/8 w, ±5%	R921	246910	Resistor, Carbon, 100 Ohms, 1/8 w, ±5%
R802	246910	Resistor, Carbon, 100 Ohms, 1/8 w, ±5%	R922	426376	Resistor, Carbon, 10 Ohms, 1/8 w, ±5%
R803	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	R923	246910	Resistor, Carbon, 100 Ohms, 1/8 w, ±5%
R804	429830	Resistor, Carbon, 22k Ohms, 1/8 w, ±5%	R924	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%
R805	429816	Resistor, Carbon, 120k Ohms, 1/8 w, ±5%	R925	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
R806	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	R926	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%
R807	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	R927	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%
R808	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	R928	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%
R809	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	R929	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R810	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	R930	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%
R811	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	R931	429820	Resistor, Carbon, 470 Ohms, 1/8 w, ±5%
R812	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	R932	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%
R821	427815	Resistor, Carbon, 1.5k Ohms, 1/8 w, ±5%	R933	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R822	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	R934	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%
R823	425269	Resistor, Carbon, 47k Ohms, 1/8 w, ±5%	R935	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%
R824	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	R941	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%
R825	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	R942	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R826	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%	R943	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%
R827	428613	Resistor, Carbon, 12k Ohms, 1/8 w, ±5%	R944	741881	Resistor, Carbon, 150k Ohms, 1/8 w, ±5%
R828	741883	Resistor, Carbon, 270 Ohms, 1/8 w, ±5%	R945	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%
R829	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%	R946	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%
R830	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%	R947	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R831	436537	Resistor, Carbon, 330k Ohms, 1/8 w, ±5%	R948	741881	Resistor, Carbon, 150k Ohms, 1/8 w, ±5%
R832	425269	Resistor, Carbon, 47k Ohms, 1/8 w, ±5%	R949	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R833	429830	Resistor, Carbon, 22k Ohms, 1/8 w, ±5%	R950	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R834	429830	Resistor, Carbon, 22k Ohms, 1/8 w, ±5%	R951	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%
R835	43323	Resistor, Carbon, 82k Ohms, 1/8 w, ±5%	R952	432105	Resistor, Carbon, 820 Ohms, 1/8 w, ±5%
R841	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%	R953	429834	Resistor, Carbon, 100k Ohms, 1/2 w, ±5%
R842	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%	R954	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%
R843	429820	Resistor, Carbon, 470 Ohms, 1/8 w, ±5%	R955	427816	Resistor, Carbon, 33k Ohms, 1/8 w, ±5%
R844	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	R956	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R845	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%	R957	429833	Resistor, Carbon, 56k Ohms, 1/8 w, ±5%
R850	502156	Resistor, Carbon, 560 Ohms, 1/2 w, ±5%	R958	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%
R851	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%	R959	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%
R852	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%			<b>Transistors</b>
R853	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	TR801	741860	Rcvr RF Amp
R854	429820	Resistor, Carbon, 470 Ohms, 1/8 w, ±5%	TR802	741855	Rcvr Mix
R855	429828	Resistor, Carbon, 10k Ohms, 1/8 w, ±5%	TR803	741855	Rcvr 2nd Mix
R856	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%	TR804	741855	Rcvr IF Amp
R861	427816	Resistor, Carbon, 33k Ohms, 1/8 w, ±5%	TR805	741855	Rcvr IF Amp
R863	429821	Resistor, Carbon, 680 Ohms, 1/8 w, ±5%	TR806	741855	Rcvr/Xmtr Osc
R864	427816	Resistor, Carbon, 33k Ohms, 1/8 w, ±5%	TR807	741856	Voltage Stabilizer
R865	427816	Resistor, Carbon, 33k Ohms, 1/8 w, ±5%	TR808	741856	Voltage Stabilizer
R866	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	TR809	741855	Rcvr 2nd Osc
R867	429831	Resistor, Carbon, 27k Ohms, 1/8 w, ±5%	TR810	169771	Rcvr AGC Amp
R868	433323	Resistor, Carbon, 82k Ohms, 1/8 w, ±5%	TR811	169771	Squelch Control
R870	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%	TR812	169771	Rcvr AF Amp
R871	429819	Resistor, Carbon, 390k Ohms, 1/8 w, ±5%	TR901	741859	XMTR Power Amp
R872	429835	Resistor, Carbon, 220k Ohms, 1/8 w, ±5%	TR902	741858	XMTR Power Drive
R873	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	TR903	741857	XMTR Buffer Amp
R874	433122	Resistor, Carbon, 220 Ohms, 1/8 w, ±5%	TR904	741855	XMTR Mix
R875	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	TR905	741855	XMTR Osc
R876	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	TR906	169771	XMTR Active Low Pass Filter
R877	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	TR907	169771	XMTR AF Amp
R880	426376	Resistor, Carbon, 10 Ohms, 1/8 w, ±5%	TR908	169771	XMTR AF Amp
R901	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%	TR909	169771	XMTR AF Amp

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SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
		<b>Diodes</b>			
D801	741864	Spark Suppression	C52	742059	Capacitor, Ceramic, 18 pf, 50 vv, $\pm 10\%$
D802	741866	Rcvr Detector	C53	742061	Capacitor, Ceramic, 10 pf, 50 vv, $\pm 5\%$
D803	741864	Switching ANL	C54	741875	Capacitor, Ceramic, 8 pf, 50 vv, $\pm 0.5$ pf
D804	741866	Rcvr Detector	C56	742043	Capacitor, Ceramic, 2 pf, 50 vv, $\pm 0.25$ pf
D805	741867	Voltage Stabilizer	C57	742039	Capacitor, Ceramic, 33 pf, 50 vv, $\pm 10\%$
D806	741864	Spark Suppression	C58	742054	Capacitor, Hi-K Ceramic, 470 pf, 50 vv, $\pm 10\%$
D807	741866	Rcvr AGC			
D808	741866	Rcvr AGC	C59	742054	Capacitor, Hi-K Ceramic, 470 pf, 50 vv, $\pm 10\%$
D809	741864	Suppression	C60	741991	Capacitor, Ceramic, 8 pf, 50 vv, $\pm 0.5$ pf
D810	741864	Suppression	C61	742043	Capacitor, Ceramic, 2 pf, 50 vv, $\pm 0.25$ pf
D811	741864	Spark Suppression			
D902	741865	Spark Suppression	C62	742060	Capacitor, Ceramic, 12 pf, 50 vv, $\pm 5\%$
D903	741864	Suppression	C64	742043	Capacitor, Ceramic, 2 pf, 50 vv, $\pm 0.25$ pf
D904	741864	Over Mod Control	C65	742058	Capacitor, Ceramic, 27 pf, 50 vv, $\pm 10\%$
D905	741864	Over Mod Control	C66	742044	Capacitor, Ceramic, 1 pf, 50 vv, $\pm 0.25$ pf
		<b>Coils, Transformers, and Filters</b>	C67	742055	Capacitor, Ceramic, 270 pf, 50 vv, $\pm 5\%$
			C68	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 vv, +30, -20%
T701	741907	CB Modulation Transformer	C69	741876	Capacitor, Ceramic, 3 pf, 50 vv, $\pm 0.5$ pf
T801	741897	CBRF Transformer	C70	742057	Capacitor, Ceramic, 39 pf, 50 vv, $\pm 10\%$
T802	741896	CBRF Transformer	C71	742054	Capacitor, Hi-K Ceramic, 470 pf, 50 vv, $\pm 10\%$
T803	741898	CBRF Transformer			
T902	741896	CBRF Transformer	C72	742062	Capacitor, Ceramic, 4 pf, 50 vv, $\pm 0.5$ pf
T903	741896	CBRF Transformer	C74	742053	Capacitor, Polyester Film, 0.0047 uf, 50 vv, 10%
T904	741896	CBRF Transformer			
L801	741903	CBRF Coil	C75	742062	Capacitor, Ceramic, 4 pf, 50 vv, $\pm 0.5$ pf
L901	741905	CBRF Coil	C76	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 vv, +30, -20%
L902	741905	CBRF Coil			
L903	741899	CBRF Coil	C101	742041	Capacitor, Ceramic, 15 pf, 50 vv, $\pm 10\%$
L904	741904	CBRF Coil	C103	742041	Capacitor, Ceramic, 15 pf, 50 vv, $\pm 10\%$
L905	741899	CBRF Coil	C104	742027	Capacitor, Polyester Film, 0.01 uf, 50 vv, $\pm 20\%$
L906	741906	CBRF Choke Coil			
IFT801	741900	CB IFT	C105	741872	Capacitor, Poyester Film, 0.0022 uf, 50 vv, $\pm 10\%$
IFT802	741900	CB IFT			
IFT803	741901	CB IFT	C106	742050	Capacitor, Poyester Film, 0.047 uf, 50 vv, $\pm 20\%$
IFT804	741902	CB IFT			
CF151	741909	Ceramic Filter	C107	742051	Capacitor, Poyester Film, 0.033 uf, 50 vv, $\pm 20\%$
CF152	741909	Ceramic Filter			
CF801	741908	Ceramic Filter	C109	742035	Capacitor, Ceramic, 100 pf, 50 vv, $\pm 10\%$
		<b>Crystal</b>	C110	741872	Capacitor, Poyester Film, 0.0022 uf, 50 vv, $\pm 10\%$
X801	741937	X'tal 37,600 MHz	C111	741871	Capacitor, Poyester Film, 0.0056 uf, 50 vv, $\pm 10\%$
X802	741938	X'tal 37,650 MHz			
X803	741939	X'tal 37,700 MHz	C112	742056	Capacitor, Ceramic, 180 pf, 50 vv, $\pm 5\%$
X804	741940	X'tal 37,750 MHz	C113	742057	Capacitor, Ceramic, 39 pf, 50 vv, $\pm 10\%$
X805	741941	X'tal 37,800 MHz	C115	742027	Capacitor, Poyester Film, 0.01 uf, 50 vv, $\pm 20\%$
X806	741942	X'tal 37,850 MHz			
X807	741929	X'tal 10,140 MHz	C116	742050	Capacitor, Poyester Film, 0.047 uf, 50 vv, $\pm 20\%$
X808	741930	X'tal 10,160 MHz			
X809	741931	X'tal 10,170 MHz	C117	742032	Capacitor, Ceramic, 330 pf, 50 vv, $\pm 10\%$
X810	741932	X'tal 10,180 MHz	C118	742050	Capacitor, Poyester Film, 0.047 uf, 50 vv, $\pm 20\%$
X901	741933	X'tal 10,595 MHz			
X902	741934	X'tal 10,615 MHz	C119	742027	Capacitor, Poyester Film, 0.01 uf, 50 vv, $\pm 20\%$
X903	741935	X'tal 10,625 MHz			
X904	741936	X'tal 10,635 MHz	C120	742027	Capacitor, Polyester Film, 0.01 uf, 50 vv, $\pm 20\%$
		<b>RADIO BLOCK</b>	C122	742048	Capacitor, Electrolytic, 33 uf, 6 vv
		<b>Capacitors</b>	C151	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 vv, +30, -20%
C51	741991	Capacitor, Ceramic, 8 pf, 50 vv, $\pm 0.5$ pf	C152	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 vv, +30, -20%

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SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
C153	742026	Capacitor, Polyester Film, 0.022 uf, 50 ww, ±20%	R112	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
C154	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 ww, +30, -20%	R113	429832	Resistor, Carbon, 39k Ohms, 1/8 w, ±5%
C155	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 ww, +30, -20%	R114	429829	Resistor, Carbon, 15k Ohms, 1/8 w, ±5%
C156	742051	Capacitor, Polyester Film, 0.033 uf, 50 ww, ±20%	R115	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%
C157	742032	Capacitor, Ceramic, 330 pf, 50 ww, ±10%	R116	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
C158	742032	Capacitor, Ceramic, 330 pf, 50 ww, ±10%	R117	429819	Resistor, Carbon, 390k Ohms, 1/8 w, ±5%
C159	742032	Capacitor, Ceramic, 330 pf, 50 ww, ±10%	R118	741883	Resistor, Carbon, 270 Ohms, 1/8 w, ±5%
C160	742049	Capacitor, Electrolytic, 4.7 uf, 25 ww	R119	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%
C161	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 ww, +30, -20%	R120	429825	Resistor, Carbon, 2.7k Ohms, 1/8 w, ±5%
C162	742045	Capacitor, Electrolytic, 100 uf, 10 ww	R151	429831	Resistor, Carbon, 27k Ohms, 1/8 w, ±5%
C163	742021	Capacitor, Electrolytic, 100 uf, 16 ww	R152	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
C164	742024	Capacitor, Electrolytic, 1 uf, 50 ww	R153	429821	Resistor, Carbon, 680 Ohms, 1/8 w, ±5%
C171	742023	Capacitor, Electrolytic, 10 uf, 16 ww	R155	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
C172	742023	Capacitor, Electrolytic, 10 uf, 16 ww	R156	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%
C173	742023	Capacitor, Electrolytic, 10 uf, 16 ww	R157	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
C174	741874	Capacitor, Polyester, 470 pf, 125 ww, ±5%	R158	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±1/8%
C175	741873	Capacitor, Polyester, 4700 pf, 125 ww, ±5%	R159	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±1/8%
C176	741873	Capacitor, Polyester, 4700 pf, 125 ww, ±5%	R160	430554	Resistor, Carbon, 3.9k Ohms, 1/8 w, ±5%
C177	742051	Capacitor, Polyester Film, 0.033 uf, 50 ww, ±20%	R161	108861	Resistor, Carbon, 100 Ohms 1/4 w, ±5%
C178	742051	Capacitor, Polyester Film, 0.033 uf, 50 ww, ±20%	R162	228878	Resistor, Carbon 56 Ohms, 1/4 w, ±5%
C179	742047	Capacitor, Electrolytic, 33 uf, 10 ww	R163	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%
C180	742048	Capacitor, Electrolytic, 33 uf, 6 ww	R164	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
C181	742023	Capacitor, Electrolytic, 10 uf, 16 ww	R165	430554	Resistor, Carbon, 3.9k Ohms, 1/8 w, ±5%
C182	742023	Capacitor, Electrolytic, 10 uf, 16 ww	R171	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%
C183	742046	Capacitor, Electrolytic, 100 uf, 6 ww	R172	427816	Resistor, Carbon, 33k Ohms, 1/8 w, ±5%
C184	742048	Capacitor, Electrolytic, 33 uf, 6 ww	R173	427815	Resistor, Carbon, 1.5k Ohms, 1/8 w, ±5%
C185	742021	Capacitor, Electrolytic, 100 uf, 16 ww	R174	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
C186	742024	Capacitor, Electrolytic, 1 uf, 50 ww	R175	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
C187	742024	Capacitor, Electrolytic, 1 uf, 50 ww	R176	425269	Resistor, Carbon, 47k Ohms, 1/8 w, ±5%
Resistors			R177	741886	Resistor, Carbon, 68 Ohms, 1/8 w, ±5%
R51	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	R178	427815	Resistor, Carbon, 1.5k Ohms, 1/8 w, ±5%
R52	430554	Resistor, Carbon, 3.9k Ohms, 1/8 w, ±5%	R179	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
R53	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%	R180	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
R54	429820	Resistor, Carbon, 470 Ohms, 1/8 w, ±5%	R181	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%
R55	429829	Resistor, Carbon, 15k Ohms, 1/8 w, ±5%	R182	429826	Resistor, Carbon, 4.7k Ohms, 1/8 w, ±5%
R56	430554	Resistor, Carbon, 3.9k Ohms, 1/8 w, ±5%	R183	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%
R57	428612	Resistor, Carbon, 1k Ohms, 1/8 w, ±5%	R184	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%
R58	427815	Resistor, Carbon, 1.5k Ohms, 1/8 w, ±5%	R185	422021	Resistor, Carbon, 6.8k Ohms, 1/8 w, ±5%
R59	430554	Resistor, Carbon, 3.9k Ohms, 1/8 w, ±5%	R188	429821	Resistor, Carbon, 680 Ohms, 1/8 w, ±5%
R60	429829	Resistor, Carbon, 15k Ohms, 1/8 w, ±5%		742004	Thermistor
R61	429820	Resistor, Carbon, 470 Ohms, 1/8 w, ±5%	Transistors		
R62	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	TR51	741862	FM RF Amp Mix
R63	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	TR52	741862	FM RF Amp Mix
R101	422021	Resistor, Carbon, 6.8k Ohms, 1/8 w, ±5%	TR53	741855	FM OSC
R102	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, ±5%	TR101	741861	AM RF Amp
R103	741885	Resistor, Carbon, 560k Ohms, 1/8 w, ±5%	TR102	741855	AM Con
R104	429818	Resistor, Carbon, 33 Ohms, 1/8 w, ±5%	TR103	741855	AM IF Amp
R105	741882	Resistor, Carbon, 330 Ohms, 1/8 w, ±5%	TR151	741855	FM IF Amp
R106	429834	Resistor, Carbon, 100k Ohms, 1/8 w, ±5%	TR152	169771	AF Amp
R107	433319	Resistor, Carbon, 1.8k Ohms, 1/8 w, ±5%	TR153	741863	Stereo Lamp Control
R108	429829	Resistor, Carbon, 15k Ohms, 1/8 w, ±5%	ICs		
R109	429830	Resistor, Carbon, 22k Ohms, 1/8 w, ±5%	IC151	741852	FM IF Amplifier
R110	425266	Resistor, Carbon, 3.3k Ohms, 1/8 w, ±5%	IC152	741853	FM MPX Amplifier
R111	422020	Resistor, Carbon, 5.6k Ohms, 1/8 w, ±5%	Diodes		
			D51	741868	FM AFC
			D101	741866	AM AGC

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SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
D102	741866	Detector	R204	429830	Resistor, Carbon, 25k Ohms, 1/8 w, $\pm 5\%$
D103	741866	FM Disc	R205	741884	Resistor, Carbon, 56 Ohms, 1/8 w, $\pm 5\%$
D151	741866	FM Disc	R206	433123	Resistor, Carbon, 560 Ohms, 1/8 w, $\pm 5\%$
D152	741866	FM Disc	R302	427816	Resistor, Carbon, 33k Ohms, 1/8 w, $\pm 5\%$
D153	741869	Voltage Stabilizer	R303	429833	Resistor, Carbon, 56k Ohms, 1/8 w, $\pm 5\%$
D154	741870	Stereo Indicator	R304	429830	Resistor, Carbon, 25k Ohms, 1/8 w, $\pm 5\%$
		Coils, Transformers, and Filters	R305	741884	Resistor, Carbon, 56 Ohms, 1/8 w, $\pm 5\%$
			R306	433123	Resistor, Carbon, 560 Ohms, 1/8 w, $\pm 5\%$
L54	741921	FM IF Trap Coil			ICs
L101	741917	Loading Coil	IC201	741854	Power Amp
L104	741915	AM OSC Coil	IC301	741854	Power Amp
L151	741922	RF Coil			<b>POWER BLOCK</b>
L152	741920	SCA Trap Coil			Capacitors
L701	741924	Choke Coil			
T151	741918	MPX Coil (19 kHz)			
T152	741919	MPX Coil (38 kHz)			
IFT51	741910	FM IFT	C701	742067	Capacitor, Electrolytic, 1000 uf, 16 wv
IFT101	741914	AM Ceramic Filter	CS702	741879	Capacitor, Feed Thru, 1000 pf
IFT102	741913	AM IFT			Diodes
IFT151	741911	FM IFT			
IFT152	741912	FM IFT			
FC51	741923	Ferrite Coil	D701	741865	Spark Suppression
		<b>AUDIO BLOCK</b>			<b>VOLUME BLOCK</b>
		Capacitors			Capacitors
C203	742064	Capacitor, Electrolytic, 1 uf, 50 wv			
C204	742028	Capacitor, Electrolytic, 100 uf, 16 wv			
C205	742047	Capacitor, Electrolytic, 33 uf, 10 wv	C202	741878	Capacitor, Ceramic, 0.2 uf, 12 wv, $\pm 20\%$
C206	742055	Capacitor, Ceramic, 270 pf, 50 wv, $\pm 5\%$	C302	741878	Capacitor, Ceramic, 0.2 uf, 12 wv, $\pm 20\%$
C207	742066	Capacitor, Polyester Film, 0.00 18 uf, 50 wv, $\pm 10\%$			Resistors
C208	742023	Capacitor, Electrolytic, 10 uf, 16 wv			
C209	741877	Capacitor, Ceramic, 0.3 uf, 12 wv, $\pm 20\%$	R207	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, $\pm 5\%$
C210	742065	Capacitor, Polyester Film, 0.1 uf, 50 wv, $\pm 20\%$	R307	429824	Resistor, Carbon, 2.2k Ohms, 1/8 w, $\pm 5\%$
C211	742063	Capacitor, Electrolytic, 470 uf, 16 wv			<b>VARIABLE CAPACITORS</b>
C303	742064	Capacitor, Electrolytic, 1 uf, 50 wv	C55	741889	Capacitor, Variable, 6 pf Trimmer
C304	742028	Capacitor, Electrolytic, 100 uf, 16 wv	C63	741889	Capacitor, Variable, 6 pf Trimmer
C305	742047	Capacitor, Electrolytic, 33 uf, 10 wv	C73	741890	Capacitor, Variable, 5 pf Trimmer
C306	742055	Capacitor, Ceramic, 270 pf, 50 wv, $\pm 5\%$	C102	741888	Capacitor, Variable, 50 pf Trimmer
C307	742066	Capacitor, Polyester Film, 0.0018 uf, 50 wv, $\pm 10\%$	C108	741887	Capacitor, Variable, 70 pf Trimmer
C308	742023	Capacitor, Electrolytic, 10 uf, 16 wv	C114	741887	Capacitor, Variable, 70 pf Trimmer
C309	741877	Capacitor, Ceramic, 0.3 uf, 12 wv, $\pm 20\%$			<b>VARIABLE RESISTORS</b>
C310	742065	Capacitor, Polyester Film, 0.1 uf, 50 wv, $\pm 20\%$	VR152	741892	Resistor, Semi-fixed, 10k Ohms (B)
C311	742063	Capacitor, Electrolytic, 420 uf, 16 wv	VR201	741895	Control, 100k + 50k Ohms, w/Switch SW701
C702	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 wv, +80, -20%	VR202	741895	Control, 100k + 50k Ohms, w/Switch SW701
C703	742052	Capacitor, Hi-K Ceramic, 0.01 uf, 50 wv, +80, -20%	VR203	741894	Balance Control 20k Ohms (B)
C704	742054	Capacitor, Hi-K Ceramic, 0.01 uf, 50 wv, +80, -20%	VR204	741893	Fader Control, 40 Ohms (B) X2
C705	742054	Capacitor, Hi-K Ceramic, 0.01 uf, 50 wv, +80, -20%	VR301	741895	Control, 100k + 50k Ohms, w/Switch SW701
C707	742065	Capacitor, Polyester Film, 0.1 uf, 50 wv, $\pm 20\%$	VR302	741895	Control, 100k + 50k Ohms, w/Switch SW701
C708	742065	Capacitor, Polyester Film, 0.1 uf, 50 wv, $\pm 20\%$	VR304	741893	Fader Control, 40 Ohms (B) XL
C709	742023	Capacitor, Electrolytic, 10 uf, 16 wv	VR902	741891	Resistor, Semi-fixed, 5k Ohms (B)
		Resistors			<b>SWITCHES</b>
R202	427816	Resistor, Carbon, 33k Ohms, 1/8 w, $\pm 5\%$	SW702	741928	AM/FM Selector Switch
R203	429833	Resistor, Carbon, 56k Ohms, 1/8 w, $\pm 5\%$			

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SYMB. NO.	STOCK NO.	DESCRIPTION	SYMB. NO.	STOCK NO.	DESCRIPTION
SW801, 802, 901	741926	CB Channel Selector Switch	M2	741960	Knob, Channel Selector
SW803	741925	Radio/CB Selector Switch	M3	741961	Knob, Squelch Control
SW904	741927	Monitor On-Off Switch	M4	741962	Knob, Delta Tune
		<b>TUNER</b>	M5	741963	Button, Monitor & CB
M90	741943	Tuner Ass'y	M6	741964	Knob, Band Select
M90-1	741944	Joint	M7	741965	Knob, Balance Control
M90-2	741945	Push Button	M8	741966	Channel Indication Plate
M90-4	741946	Spring	M9	741990	Back Plate
M90-5	742006	Universal Joint	M16-2	741967	E-Ring 3mmØ
		<b>MISCELLANEOUS</b>	M21	741969	Dial Pointer Guide
M801	741948	Meter	M30	741972	Illumination Cap
PL1	741949	Pilot Lamp	M32	741981	Pilot Lamp Holder
PL2	741950	Pilot Lamp	M33	741982	Pilot Lamp Holder
F701	170541	Fuse 3A	M34	741983	Meter Holder
CN901	741951	DIN Connector	M35		Lead Type Antenna
AJ901	741952	M Type Connector		741984	Receptacle
CN801(J)	741953	3P Connector Jack	M37	741985	Joint
CN801(P)	741954	3P Connector Plug	M49	741987	Power Supply Cord
CN802(J)	741955	7P Connector Jack	M51	741988	Power Supply Cord
CN802(P)	741956	7P Connector Plug	M53	741989	Speaker Cord
CN201(J)	741957	5P Connector Jack	M54	741993	Speaker Cord
CN151(J)	741958	5P Connector Jack	M55	741994	Speaker Cord
CN201(P)			M56	741995	Speaker Cord
CN151(P)	741959	5P Connector Plug	M57	741996	Speaker Extension Cord
M1	741992	Escutcheon Ass'y	M74	741997	Illumination Cap
			M75	741998	Connector
			M76	741999	Spring

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