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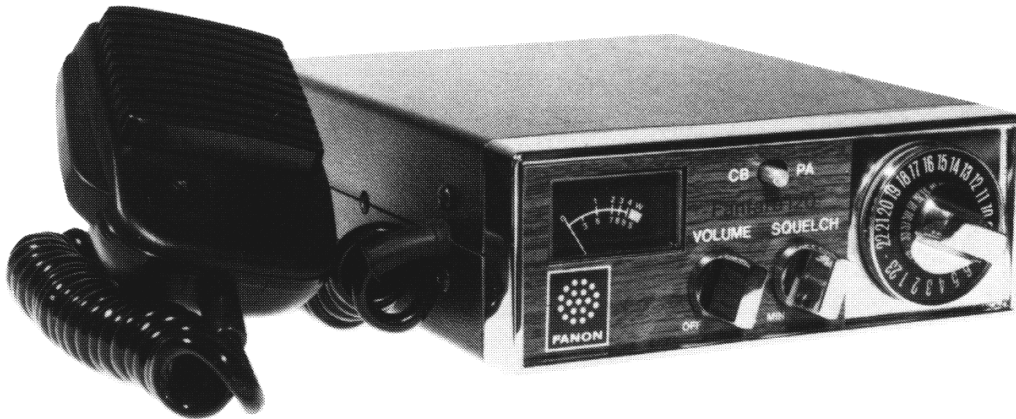
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# **FANFARE 120**

## **CITIZENS BAND TRANSCEIVER**

### **SOLID STATE • DC OPERATION**



**FCC TYPE ACCEPTED**

**INSTRUCTION MANUAL**

## NOTICE

FCC Rules and Regulations, Part 95, requires that only those persons possessing a valid First or Second Class Radio Telephone Operator's license are permitted to make repairs or adjustments in the transmitter section of any Citizens Band Transceiver.

## CERTIFICATION

FANON/COURIER Corporation, Pasadena, California, certifies that this Citizens Band Transceiver meets FCC Rules and Regulations, Part 95, regarding frequency tolerance, stability, power input, modulation, and spurious suppression.

This certification is void if crystals other than those recommended by the manufacturer are installed or if any modification is made to the transmitter circuits, not specified by FANON/COURIER Corporation, or by any personnel not holding the proper FCC license.

## NOMINAL SPECIFICATIONS

### GENERAL

- Transistors - 20
- Diodes - 13
- \* Self-contained speaker-3-1/4" round type-8 ohm voice coil
- \* Dynamic Microphone with Press-To-Talk switch 600 ohm
- \* Illuminated Channel Indicator and "S"/RF power meter
- \* 50 ohm external antenna impedance
- \* Operate from 13.8V DC supply negative or positive ground
- \* 23 Channel selector switch
- \* Volume control with power switch
- \* External Speaker and P.A. Jacks
- \* Co-axial type antenna connector
- \* Under dash mounting bracket
- \* Mechanical Filter - 1
- \* Squelch control

### RECEIVER SECTION

- . Frequency range (MHz) 26.965 to 27.255
- . Sensitivity 0.5uV/m for 10db S+N/N  
ratio at 30% Modulation  
at 1KHz.
- . Selectivity 6db down at  $\pm 3$ KHz; 50db  
down at  $\pm 10$ KHz.
- . Adjacent Channel  
Rejection Better than 50db
- . Audio Distortion 1000 Hz Less than 7%  
purious Response 50db
- . Squelch Sensitivity .5uV
- . Squelch Stop Sensitivity 630uV
- . Noise Limiter Series gate
- . Audio output at 8 ohms 2.5W (10%)
- . Intermediate Frequency 1st IF: 11.275 MHz,  
2nd IF: 455 KHz
- . Hum and Noise 50db down, nominal

## TRANSMITTER SECTION

. Frequency Range (MHz)	26.965 to 27.255
. Power Output at 13.8V DC	3.5W nominal, 4W maximum
. Modulation (5mV at Mic)	100%
. Emission Class D operation	6A3
. Frequency Tolerance	±0.005%
. Antenna Matching	50 ohms
. Switching	Electronic
. Modulation Distortion	Less than 7% at 85% modulation at 1000 Hz.
. Harmonic Suppression	Better than 50 db down
. Modulation Limiter	Yields high average voice levels.

## GENERAL DESCRIPTION

Your FANFARE 120 is designed to receive AM signals in the 26.965 to 27.255 MHz Citizens Band. The receiver circuit is a highly sensitive and selective dual conversion super-heterodyne type. Full 23 channel, crystal controlled operation is provided by a frequency-synthesized circuit consisting of 12 crystals.

The receiver section includes an "S" Meter for reading signal strength, an adjustable squelch control to eliminate background noise when no signal is being received and an automatic noise limiter to suppress atmospheric and man-made interference.

The frequency synthesizer used in the receiver section is also common to the transmitter section. The transmitter is capable of producing full 5 watts, at 100% modulation, to the final RF stage.

## FCC REGULATIONS AND REQUIREMENTS

Before placing any transmitter on the air, it is necessary that a valid Citizens Band Station license be obtained in accordance with FCC Rules Part 95. The following sections are reprinted solely as a guide and should not be construed as exact reproductions of pertinent sections of FCC Rules Part 95. The user is advised to review the rules and regulations frequently since changes and revisions occur periodically.

1. It is required that the licensee of each transmitting station attach to each mobile transmitter a properly filled out Identification card or FCC Form 452.
2. The licensee must attest to the fact that he has in his possession, and has read, a copy of the FCC Rules and Regulations, Part 95, prior to filling out Form 505.

A copy of Part 95 of the FCC Rules and Regulations may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

License application, FCC Form 505, may be obtained from the Federal Communications Commission, Washington, D.C. 20554 or from the nearest FCC Field Office listed below.

### FCC FIELD OFFICES

Mobile, Ala. 36602	Boston, Mass. 02109
Anchorage, Alaska 99501	Detroit, Mich. 48226
Los Angeles, Cal. 90012	St. Paul, Minn. 55101
San Diego, Cal. 92101	Kansas City, Mo. 64106
San Francisco, Cal. 94111	Buffalo, N.Y. 14202
San Pedro, Cal. 90731	Portland, Ore. 97204
Denver, Col. 80202	Philadelphia, Pa. 19106
Miami, Fla. 33130	San Juan, P.R. 00903
Tampa, Fla. 33606	Beaumont, Tex. 77701
Atlanta, Ga. 30303	Dallas, Tex. 75202
Savannah, Ga. 31402	Houston, Tex. 77002
Honolulu, Hawaii 96808	Norfolk, Va. 23502
Chicago, Ill. 60604	Seattle, Wash. 98104
New Orleans, La. 70130	
Baltimore, Md. 212101	

# INSTALLATION

## MOBILE STATION INSTALLATION

Use the mounting bracket supplied as a template to locate the mounting holes for mounting the bracket. Secure the bracket under the dash at a position easily reached by the operator. The transceiver may be tilted in the mounting bracket for the best view of the front panel and for operation of the controls.

## CAUTION

This unit has a polarity protection diode in the DC power circuit. If the power source polarity is reversed, the fuse will blow. CHECK CAREFULLY THE POLARITY CONNECTIONS BEFORE YOU TURN ON THE POWER SWITCH.

UNDER NO CIRCUMSTANCES SHOULD A LARGER FUSE BE USED THAN THE ONE ORIGINALLY SUPPLIED (1.5 ampere) AND NEVER BYPASS THE FUSE WITH A JUMPER WIRE. IN EITHER OF THESE INSTANCES SEVERE DAMAGE TO YOUR TRANSCEIVER CAN OCCUR AND YOUR WARRANTY IS VOIDED.

## NEGATIVE GROUND CONNECTIONS

Connect the RED lead to the POSITIVE terminal of the battery or accessory connection on an ignition switch. Connect the BLACK lead to the frame of the vehicle or at the COMMON ground terminal used by other accessories. Be sure to connect the antenna connector to the rear connector of the transceiver.

## CONNECTIONS FOR POSITIVE GROUNDED VEHICLES

In positive grounded power supplies the POSITIVE terminal of the battery or other power source is connected to the frame of the vehicle and the NEGATIVE terminal is connected to the ignition switch, therefore, connect the RED lead of the transceiver power cable to the FRAME of the vehicle or at COMMON terminal used by the other accessories. Connect the BLACK lead from the transceiver power cable to the ignition switch accessory connection or directly to the NEGATIVE terminal on the battery or other power source. The other connections are the same as for a negative grounded system.

## MICROPHONE

It is recommended that a location for the microphone hanger be chosen that will permit the microphone cable to be free from obstructing other controls. For convenience, it is desirable to locate the hanger somewhere on the dashboard within easy reach of the operator so that the microphone may be grasped without the operator having to take his eyes off the road. When the approximate location has been chosen, use the hanger as a template and centerpunch the centers for two #30 (.120 DIA) holes. The hanger inner spring should be adjusted with long nose pliers for proper holding tension. The microphone should be placed into the microphone hanger when not in use to avoid being damaged.

## BASE STATION INSTALLATION

Your transceiver may also be used as a base station installation through the use of a FANON/COURIER Model PS-20A Base Station Power Supply (or equivalent). Locate the transceiver near the antenna lead-in and a 117VAC, 60 Hz power outlet. Mount the unit under the edge of a shelf or table or on a table with the bracket mounted on the speaker side of the unit. Observe carefully the polarity of the power leads when making connections to the power supply. The red lead is positive (+) and the black lead is negative (-). Your license must be posted at the station location and the station should not be operated by unauthorized persons. When not in use, be sure to turn the transceiver power switch OFF. If the unit will not be used for a long period of time, the PS-20A AC power cord should be removed from the power outlet.

## ANTENNA INSTALLATION

Your transceiver is designed to operate with any good quality Citizens Band base or mobile antenna. The type of antenna you should use depends largely upon how and where the antenna is to be mounted and the radiation pattern desired or required. All FANON/COURIER dealers are qualified to assist you in the selection of the proper type to meet your needs.



If it is necessary to change the cable length, type RG58/U is recommended for lengths up to 50 feet. RG8/U should be used for lengths over 50 feet.

To check the "impedance match" between the antenna and the transceiver, use a COURIER Model PORT-A-LAB 500 Voltage Standing Wave Ratio Meter (or equivalent). Follow the instructions given with the instrument.

CAUTION: NEVER OPERATE YOUR TRANSCEIVER WITHOUT A PROPERLY MATCHED ANTENNA PLUGGED INTO THE ANTENNA CONNECTOR.

## FUNCTION OF CONTROLS (See Figure 1)

### VOLUME CONTROL - POWER ON/OFF SWITCH

When this control is turned fully counterclockwise, the power switch is in the OFF position. Turning the control clockwise turns the power ON and controls the volume level.

### CHANNEL SELECTOR

The channel selector has 23 operating positions and one blank position. The transmitter and receiver frequencies are set simultaneously upon selection of a desired channel.

### SQUELCH CONTROL

This control will silence background noise when a signal is not being received. Correct adjustment of the control is as follows:

Adjust the squelch control fully counterclockwise and adjust the volume control approximately 1/2 of its rotation. Select a channel on which no signal is being received. Turn the squelch control clockwise just to the point where the background noise stops. Upon receipt of a signal, the squelch will open and the station will be heard. (If adjusted too far past this point, weak signal may not be heard.)

## "S"/RF METER

Meter indicates relative signal strength of incoming signals from 1 through 9. A reading of 1 indicates a weak or distant station and a reading 9 would indicate a local or a higher power station. The RF power scale indicates the relative RF power in watts being transmitted by your transmitter.

## CB/PA SWITCH

Set this switch to the CB position for Citizens Band operation and to the PA position when using the transceiver as a public address amplifier. A speaker must be plugged into the PA SPK jack on the rear of the chassis. The transceiver volume control will not control the volume level of the PA speaker. Prepare an 8 ohm horn or speaker with an insulated cable, FANON/COURIER Model 2W, or equivalent, a miniature phone plug, (H. H. Smith #480) or equivalent and a 5K ohm volume control. Plug into the PA SPK jack.

CAUTION: SPEAKER WIRE MUST NOT BE GROUNDED, OR CONNECTED IN ANY WAY TO THE TRANSCEIVER CHASSIS OR POWER SOURCE, SUCH AS THE VEHICLE FRAME.

Set the CB/PA switch to PA and press the microphone switch. Adjust the added volume control for the proper audio level at the PA speaker or horn. When the CB/PA switch is in the PA position, all other functions of the transceiver are turned off.

## EXTERNAL SPEAKER-JACK

Prepare an 8 or 16 ohm speaker as shown in the diagram (without the volume control) and plug into the EXT-SPK jack on the rear panel. The internal speaker will be cut out.

CAUTION: POWER SWITCH MUST BE IN THE OFF POSITION BEFORE PLUGGING IN JACK ON REAR PANEL - THE SPEAKER LEADS MUST NOT BE CONNECTED IN ANY WAY TO THE VEHICLE CHASSIS OR TO THE TRANSCEIVER CHASSIS AS SHORTING WILL BURN OUT THE FUSE AND MAY CAUSE DAMAGE TO THE SPEAKER

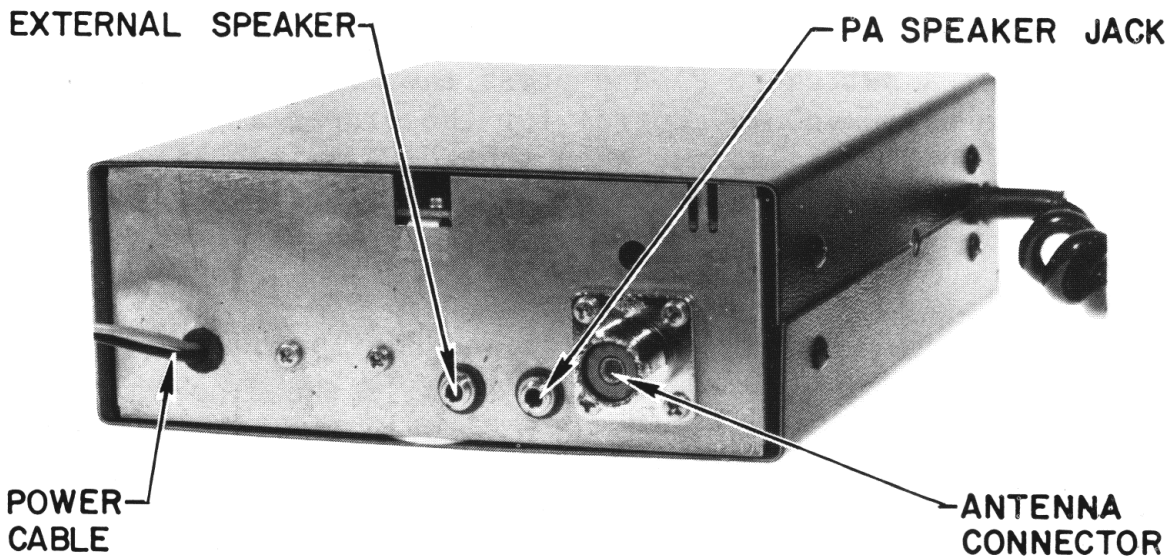
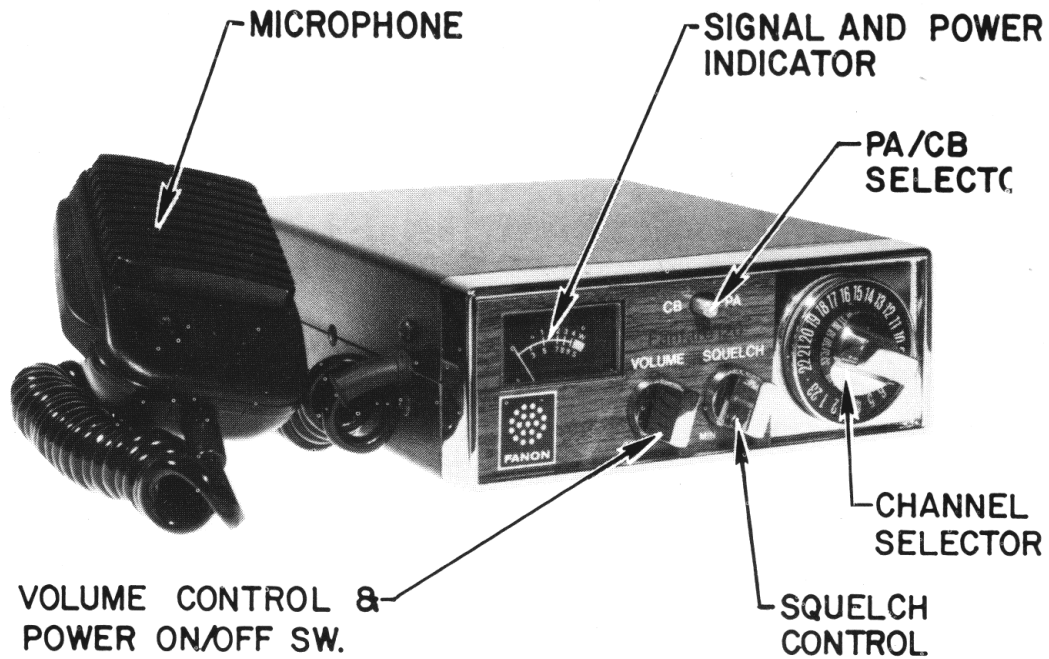


FIGURE 1  
 FRONT & REAR PANELS, CONTROLS, INDICATORS & CONNECTIONS

## OPERATING INSTRUCTIONS

### RULES TO REMEMBER.

- (1) Station identification must be given at the beginning of each contact, regardless of whether the call lasts 30 seconds or a full 5 minutes.
- (2) Use channels 9,10,12,13,14 and 23 for INTERSTATION communication. Channel 9 should be used for emergency aid only and channel 11 for calling.
- (3) Make your transmissions brief and to the point. Long transmissions tend to confuse, making it hard for the other party to remember all that you may have asked. It is to your advantage to ask one question at a time.
- (4) Stay within the 5-minute limit set forth in Part 95 of the Rules and Regulations. If you have additional information that must be relayed to your station and have used up your time, clear the channel for at least one minute to allow others to place their calls, then contact your station again once they have cleared.
- (5) Use the "break-break" procedure ONLY when it is absolutely necessary to use the channel.
- (6) Speak clearly and distinctly, with the microphone approximately two inches from your lips. And speak in a normal tone - shouting only creates distortion.
- (7) Be prepared to use any CB channel in case of emergency. Part 95.85 of the Rules permits a waiver of all restrictions where immediate safety of life or immediate protection of property can be demonstrated.

### RECEIVER OPERATION

1. Rotate the volume control approximately 1/2 turn clockwise and observe that the channel selector and "S"/RF meter are illuminated.

## RECEIVER OPERATION (Continued)

2. Adjust the squelch control fully counterclockwise and set the CB/PA switch to CB.
3. Rotate the channel selector and select a desired channel. Observe that the "S"/RF meter indicates a higher reading for some stations. A reading of 9 indicates a signal from a powerful local station. A reading of 2 or 3 indicates a signal from a distant or lower-power station.
4. When listening for a call, turn the squelch control clockwise from counterclockwise position (without a signal) until the atmospheric noise usually heard on CB channels just stops. Upon receipt of the call, the squelch will be overcome and the message may be heard without the annoying CB hash.

## TRANSMITTER OPERATION

1. Select the desired channel and be sure it is clear of incoming signals before you press the transmit switch.
2. Press the microphone transmit switch and speak into the microphone (2 or 3 inches away). Release the transmit switch to listen for the reply.
3. Observe that the "S"/RF meter indicates the relative RF power output when transmitting.

## CRYSTAL SYNTHESIS

Your transceiver is equipped with crystals for all 23 transmit and receive frequencies of the Citizens Radio Service.

Crystal selection is determined by the "synthesis" technique; that is 12 crystal frequencies are selectively mixed to provide 23 crystal fixed transmit and receive frequencies.

## CRYSTAL SYNTHESIS (Continued)

To determine the channels that are affected by the various crystals, locate the transmit or receive channel in the chart. The A-Group are the two crystals which determine the frequency of that channel. For example, channel 6 transmit frequency (27.025 MHz) is determined by the 23.340 and the 14.960 crystals.

Channel	A Group	B Group	A + B	(A + B) -11.275 MHz
1	23.290 MHz	14.950 MHz	38.240 MHz	26.965 MHz
2	"	14.960	38.250	26.975
3	"	14.970	38.260	26.985
4	"	14.990	38.280	27.005
5	23.340 MHz	14.950	38.290	27.015
6	"	14.960	38.300	27.025
7	"	14.970	38.310	27.035
8	"	14.990	38.330	27.055
9	23.390 MHz	14.950	38.340	27.065
10	"	14.960	38.350	27.075
11	"	14.970	38.360	27.085
12	"	14.990	38.380	27.105
13	23.440 MHz	14.950	38.390	27.115
14	"	14.960	38.400	27.125
15	"	14.970	38.410	27.135
16	"	14.990	38.430	27.155
17	23.490 MHz	14.950	38.440	27.165
18	"	14.960	38.450	27.175
19	"	14.970	38.460	27.185
20	"	14.990	38.480	27.205
21	23.540 MHz	14.950	38.490	27.215
22	"	14.960	38.500	27.225
23	"	14.990	38.530	27.255

### 1) Frequency of Transmitter

(A) group + (B) group (-) 11.275 MHz

### 2) Frequency of Receiver

(A) group + (B) group (-) Receiver Frequency = 11.275 MHz  
 (1st IF) 11.730 MHz (2nd OSC) (-) 11.27 MHz = 455 KHz  
 (2nd IF).

## SERVICE AND MAINTENANCE

### WARNING

THE FCC RULES AND REGULATIONS, PART 95, REQUIRES THAT ONLY PERSONS POSSESSING A VALID FIRST OR SECOND CLASS RADIOTELEPHONE OPERATOR'S LICENSE ARE ALLOWED TO MAKE ADJUSTMENTS OR REPAIRS TO THE TRANSMITTING SECTION OF THIS TRANSCEIVER.

MODIFICATION TO THE TRANSMITTER SECTION IN ANY WAY NOT RECOMMENDED BY FANON/COURIER CORPORATION IS ILLEGAL. MODIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO, SUBSTITUTION OF CRYSTALS, REPLACEMENT OF COMPONENT PARTS NOT OF THE SAME ELECTRICAL RATING, ADDITION OF ANY COMPONENT PART (S), CONNECTIONS, DEVICE OR ACCESSORY INTERNALLY OR EXTERNALLY TO THE TRANSMITTER.

Troubleshooting assistance may be obtained by writing to FANON/COURIER Corporation, 990 South Fair Oaks Avenue, Pasadena, California 91105. Address your inquiry to the attention of the Customer Service Department. Always state the Model, Serial Number and Issue of Schematic Diagram to which the unit was built. The schematic issue letter may be found in the lower right hand corner of the schematic or from the legend on the printed circuit board.

Should your unit require service for any reason, please refer to the enclosed Authorized Warranty Station List for assistance and location in your area.

When ordering parts, refer to the part number listed in the Replacement Parts List and give a description of the part. Mail to the attention of Parts Department.

A Service Manual is available for this transceiver. Order from FANON/COURIER Customer Service Department. Price \$2.25 Post Paid.

## SPECIAL REPLACEMENT PARTS LIST

SYMBOL	DESCRIPTION	PART NUMBER
<b>SOLID STATE DEVICES</b>		
TR1,2	Transistor, 2SC1359(B)	2041-01
TR3,4,5,10,11, 12,15,16,17, 20	" 2SC829(B)	1006-48
TR6,13,14	" 2SC828(Q)	1035-80
TR7	" 2SC1684(Q)	2041-02
TR8,9	" 2SC1226(Q)	2041-03
TR18	" 2SC1975	2041-04
TR19	" 2SC1226AP	1080-06
D7,11,13	Diode, IS1885 or SRIK-1	1041-63  1080-08
D6,12	" MA150 or IS1555	2041-05  1041-66
4,5,8,9	" IN60 AM	294-42-9
D10	" BZ090 or IZ9.1	1074-120  2041-06
D1,2,14	" IS953	1010-143
<b>COILS AND TRANSFORMERS</b>		
CF1	Ceramic Filter, CFU455 H LF-B6	1079-12
T1	Coil, 27 MHz, IFT	1080-11
T2	" 27 MHz, IFT	1080-12



## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>COILS AND TRANSFORMERS (Continued)</b>		
T3	Coil, 11.275 MHz, IFT	1080-13
T4	" 11.275 MHz, IFT	1080-14
T5	" 455 kHz, IFT	2041-07
T6,7	" 455 kHz, IFT	1080-16
T8	" 455 kHz, IFT	1080-17
T11	" 23 MHz, Osc.	1080-18
T12,13	" 38 MHz, IFT	1080-19
T15,16	" 27 MHz, 10K	1043-22
T17	" 27 MHz, 10K	1043-23
L1	" 14 MHz, Trap	1080-25
L2,3	Micro Inductor LF4-2R2K	1080-27
L5,6	Coil, RF Choke	1080-26
L7	" TVI Trap	1080-
L8	" Antenna Filter	2041-08
L9	" Tx. Matching	1045-24
L10	" Tx. Final	1080-22
L12	" Tx. Driver	1080-23
L13	" Tx. Amplifier	1080-24
L14	" 3rd Trap	2041-09
L4	Choke Transformer	1080-28

## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>COILS AND TRANSFORMERS (Continued)</b>		
T9	Input Transformer	1080-137
T10	Output Transformer	1080-138
L15	Coil, Choke 1 mH	1080-134
<b>CAPACITORS</b>		
C11,15	Ceramic, 1pF, CH ±10%	50V 1080-40
C4,18,44,45, 79	" 2pF, " "	" 1080-41
C46,74	" 3pF, " "	" 1080-42
C38,77	" 5pF, " "	" 1080-43
C48	" 10pF, "	" 1080-44
C71	" 27pF, "	" 2041-25
C1,107	" 33pF, "	" 1080-46
C41,70,87,103	" 47pF, "	" 1080-47
C90	" 50pF, "	" 160-86-9
C96	" 20pF, "	" 2041-24
C22,39,72,78, 100	" 100pF, "	" 1080-48
C104	" 120pF, "	" 2041-23
C8,75	" 150pF, "	" 1042-156
C8 <sup>a</sup>	Mica, 150pF, "	" 1042-140
C47,65,68	Ceramic, 220pF, "	" 1080-49

## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>CAPACITORS (Continued)</b>		
C92	Mica, 220pF, ±10%	50V 2041-20
C99	Ceramic, 250pF, "	" 1080-50
C49,64,67	" 470pF, "	" 1080-51
C62,108	" 0.001mfd, +80%(-)20%	" 1042-161
C25	" 0.002mfd, " "	" 1080-52
C30,63	" 0.005mfd, " "	" 1079-44
C7,12,13,19, 59	Mylar, 0.01mfd, ±10%	" 1042-166
C53	Ceramic, 0.02mfd, "	" 1042-159
C58	Mylar, 0.02mfd, "	" 2041-26
C2,3,5,6,9, 23,40,42,43, 50,61,66,69, 73,76,81,84, 94,97,106	Ceramic, 0.01mfd, +80%(-)20%	" 1042-157
C10,14,17,88, 91,93,98,101, 102,105	" 0.04mfd, " "	" 1079-45
C16,20	Mylar, 0.04mfd, ±10%	" 1042-163
C80	Ceramic, 0.1mfd, +80%(-)20%	" 1080-53
C37,60	Mylar, 0.1mfd, ±10%	" 1080-55
C32,85,86	" 0.22mfd, "	" 2041-21
C26	Electro-lytic 0.47mfd,	16V 1080-133

## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>CAPACITORS (Continued)</b>		
C35,36	Mylar, 0.03mfd, ±10%	50V 2041-22
C27,28,51,82	Electro-lytic 1mfd,	16V 2041-19
C24,31,52,54, 108	" 10mfd,	" 2017-86
C21,56	" 47mfd,	10V 1080-59
C55	" 30mfd,	16V 2041-18
C29,33	" 100mfd,	10V 1080-60
C34	" 100mfd,	16V 1042-127
C83	" 470mfd,	" 1042-124
<b>CRYSTALS</b>		
X1	23.290MHz	1016-126
X2	23.340 "	1016-127
	23.390 "	1016-128
X4	23.440 "	1016-129
X5	23.490 "	1016-130
X6	23.540 "	1016-131
X7	14.950 "	1016-132
X8	14.960 "	1016-133
X9	14.970 "	1016-134
X10	14.990 "	1016-135

## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>CRYSTALS (Continued)</b>		
X11	11.730MHz	1016-137
X12	11.275 "	1016-136
<b>CONTROLS</b>		
VR2, S1	Volume Control w/Switch, 10K ohm 20 m/m	1080-29
VR3	Volume Control for Squelch 50K ohm B 20 m/m	1080-31
VR4	Semi Fixed Variable Resistor 50K ohm B	1080-32
VR1	Semi Fixed Variable Resistor 30K ohm B	1079-19
VR6,7	Semi Fixed Variable Resistor 20K ohm B	1042-97
VR5	Semi Fixed Variable Resistor 10K ohm	1042-98
<b>MISCELLANEOUS</b>		
	Lamp (D)	1079-54
	Meter, S-RF Power	2041-10
S2	Switch, Channel Selector	2041-11
S3	Switch, CB-PA	2041-12
	Speaker, 16 ohm 3W	1080-150
J2, J3	Jack, PA & Ext. Spkr.	1079-110
J1	Jack, Antenna	1079-48
	Cord, DC Power	1001-48
	Crystal Socket 6P	2041-15

## SPECIAL REPLACEMENT PARTS LIST (Continued)

SYMBOL	DESCRIPTION	PART NUMBER
<b>MISCELLANEOUS (Continued)</b>		
	Crystal Socket 4P	2041-16
	Crystal Socket 1P	2041-17
	Front Panel	2041-28
	Bracket, Mounting	2041-32
	Heat Sink A	2041-33
	Heat Sink C	2041-34
	Top Cover	2041-36
	Bottom Cover	2041-38
	Heat Sink for TR-19 (2SC1226)	1080-149
	Knob, Channel Selector Assy.	2041-54
	Knob, VC/SQ	1080-145
	Decorative Face Plate	2041-55
	Microphone	2011-56
	Hanger for Microphone	2041-57