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**Pearce Simpson Pussycat 23 Owners Manual**  
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**PEARCE-SIMPSON**  
DIVISION OF **GLADDING** CORPORATION



**PUSSYCAT 23**

# SECTION 1

## GENERAL INFORMATION

### DESCRIPTION

Your new PEARCE-SIMPSON PUSSYCAT 23 is an all transistorized, 23-channel Citizens Band Transceiver. This radio is ideally suited for base and/or mobile operation from 120V AC or 13.8V DC power source, negative ground. To provide the crystal-controlled, 23-channel operation, PEARCE-SIMPSON utilizes an all-transistor circuit.

The receiver is a sensitive superheterodyne circuit featuring: Dual conversion, low noise RF stage, adjustable squelch, automatic noise limiter S-meter, external speaker jack, and instantaneous selection of any of the 23 crystal controlled channels.

The transmitter section is designed around highly reliable silicon transistors. This circuit makes use of the output of two crystal-controlled oscillators which are beat together to produce the desired frequency. The transmitter final is a conservatively rated high gain RF power transistor.

### SPECIFICATIONS

#### GENERAL:

Channels : 23 Crystal-Controlled  
Size : 10-3/4" Wide × 3-3/4" High × 9-1/4" Deep  
Weight : 8 Pounds  
Antenna : 50-Ohm Coaxial  
Primary Power : Input Voltage 13.8V DC (EIA Standard) & 120V AC

#### TRANSISTOR COMPLEMENT:

Q101	2SC710	RF AMPLIFIER
Q102	2SC710	1ST RECEIVER MIXER
Q103	2SC710	2ND RECEIVER MIXER
Q104	2SC710	455Khz IF AMPLIFIER
Q105	2SC710	455Khz IF AMPLIFIER
Q106	2SC710	10Mhz 2ND LOCAL OSCILLATOR
Q107	2SC710	MIKE AMPLIFIER
Q108	2SC710	SQUELCH AMPLIFIER
Q109	2SC710	AF AMPLIFIER
Q110	2SC710	AF DRIVER
Q111	2SC1014	AF POWER AMPLIFIER
Q112	2SC1014	AF POWER AMPLIFIER
Q113	2SC710	37Mhz OSCILLATOR
Q114	2SC710	10Mhz TRANSMIT OSCILLATOR
Q115	2SC710	TRANSMIT MIXER
Q116	2SC738	TRANSMIT BUFFER
Q117	2SC1018	TRANSMIT DRIVER

Q118	2SC756	TRANSMIT FINAL
Q119	2SA696	RECEIVE TRANSMIT SWITCHING
Q120	2SC793	VOLTAGE REGULATOR
Q121	2SC710	VOLTAGE REGULATOR
Q122	2SC710	VOLTAGE REGULATOR

### DIODE COMPLEMENT:

CR101	IN60	RECEIVER RF AMPLIFIER PROTECTOR
CR102	IN60	AGC PROTECTOR
CR103	IN60	AGC PROTECTOR
CR104	IN60	DETECTOR
CR105	IN60	DETECTOR
CR106	IS1588	ANL GATE
CR107	IS1588	AMPLITUDE LIMITER
CR108	SIB-01-02	ANT SWITCHING
CR109	SIB-01-02	MODE SWITCHING
CR110	IN60	METER
CR111	IN60	METER
CR112	SIB-01-02	POLARITY PROTECTOR
CR113	SIB-01-02	POLARITY PROTECTOR
CR114	SIB-01-02	RECTIFIER
CR115	SIB-01-02	RECTIFIER
CR116	SIB-01-02	RECTIFIER
CR117	SIB-01-02	RECTIFIER

### RECEIVER:

Frequency Range	26.965 MHz. — 27.255 MHz.
Sensitivity	1.0 $\mu$ V or Less/10db S+N/N
Selectivity	5KHz at -6db, 20KHz at -40db 40KHz at -60db
Spurious Rejection	50 db minimum
Adjacent Channel Rejection	50 db minimum
Squelch Range	Adjustable from 1.0 $\mu$ V—500 $\mu$ V
Automatic Noise Limiter	Built-in
1st I.F. Frequency	10 MHz. center frequency
2nd I.F. Frequency	455 KHz.
Audio Output Power at 10% Distorsion	2.0W
Speaker	2-1/4", 8 ohms

### TRANSMITTER:

Frequency Range	26.965 MHz. — 27.255 MHz.
Carrier Frequency Stability	0.005%
Output Power	3.0W
Modulation Capability	80~100%
Spurious & Harmonics Suppression	50 db minimum

## WARNING

Operation of this equipment requires a valid station license issued by the Federal Communications Commission. Do not transmit with your equipment until you have received your license. Illegal operation can result in severe penalties. Be certain that you have read Part 95 of the FCC Rules and Regulations before operating your station.

License applications are to be made on FCC Form 505 available from your nearest FCC field office. (A copy of this form is included with your new transceiver.)

You are required to maintain a current copy of Part 95 of the FCC Rules as a part of your station records. Copies of Part 95 are available from Superintendent of Documents, GPO, Washington, D.C., 20402 for a fee of \$3.50.

Your Station License is to be posted in accordance with paragraph 95.101 of the Rules and an executed Transmitter Identification Card (FCC Form 452-C) is to be attached to each transmitter. (A copy of this form is included with your new transceiver.)

## FREQUENCIES AVAILABLE FOR CLASS D OPERATION

Channel	MHz	Channel	MHz	Channel	MHz
1	26.965	9	27.065 *	17	27.165
2	26.975	10	27.075 *	18	27.175
3	26.985	11	27.085 *	19	27.185
4	27.005	12	27.105 *	20	27.205
5	27.015	13	27.115 *	21	27.215
6	27.025	14	27.125 *	22	27.225
7	27.035	15	27.135 *	23	27.255 *
8	27.055	16	27.155		

\* Channels available for communications between units of different stations. (In accordance with FCC Part. 95.41 (d) (2) )

## **SECTION 2**

### **INSTALLATIONS & INITIAL ADJUSTMENT**

#### **IMPORTANT**

BEFORE DISCARDING ANY OF THE PACKING MATERIALS, EXAMINE THEM CAREFULLY FOR ITEMS YOU MAY HAVE OVERLOOKED.

### **POWER CONNECTION (MOBILE)**

The PUSSYCAT 23 is constructed to be used in vehicles using only negative grounds. The red power lead is to be connected to the positive terminal of the battery. The black lead is to be connected to ground. If the existing wiring is used, be sure that it is heavy enough to prevent voltage drop to the radio. A good source of positive battery voltage is at the accessory connection on the ignition switch. Using this as a power source insures the radio will be off when the ignition switch is turned "OFF", and power will be supplied to the radio when it is in the "ON" or "ACCESSORY" position.

### **MOBILE INSTALLATION**

Your PUSSYCAT 23 has been adjusted at the factory to give optimum performance using a 50-ohm antenna. There are a number of 50-ohm antenna available for mobile citizens band use.

For an automobile installation, a whip may be used with good efficiency because the automobile acts as a counterpoise and reduces detuning effects. The mounting location also has a great effect on the efficiency: The most efficient and practical installation is a full quarter wave whip mounted on the left rear deck of fender top midway between the rear window and bumper.

The so-called "Short whip" is a less efficient antenna because the radiation area is reduced. However, full use of its capability may be achieved since a shorter antenna may be mounted in a more advantageous position on a automobile, such as in the middle of the top.

There are also newer mobile antennas on the market which are made to replace the entertainment radio antenna and are similar in appearance. These antennas serve three purposes: AM and FM entertainment broadcast reception and Citizens Band transmission and reception. With some of these antennas, it is possible to simultaneously transmit on CB and receive on AM broadcast with interaction. These antennas are quite efficient for all three types of operation when properly adjusted.

For a marine installation, the full-length quarter wave whip antenna is very efficient, however, it requires radials which make it hard to mount in small boats. Another excellent antenna is the coaxial sleeve type which requires no radial. A similar antenna is the centerloaded 1/2 wave which is about the same as the full length 1/4 wave whip and it requires no radials. Care must be used when choosing one of the shorted type antennas as considerable variation in efficiency will be found between the various makes and models. As a general rule, avoid those with short radiating elements because the greater the radiating area, the stronger the radiated signal will be.

Your PEARCE-SIMPSON dealer is prepared to offer advice and will help you choose the most desirable antenna for your needs.

Many of the newer Citizens Band antennas provide means of adjusting them for lowest SWR. Instructions for doing so are included with the antenna. For such antennas as the full quarter wave length whip, it is necessary to carefully vary the length until the lowest SWR is obtained. For all adjustments to the antenna, connect an SWR meter in the feed line to the antenna.

The PUSSYCAT 23 will work into an antenna system having an SWR as high as 3:1. For best communications, you will want this figure as near 1:1 as possible so that the antenna will be operating at its best efficiency.

# SECTION 3

## OPERATING INSTRUCTIONS

### CONTROLS AND INDICATORS

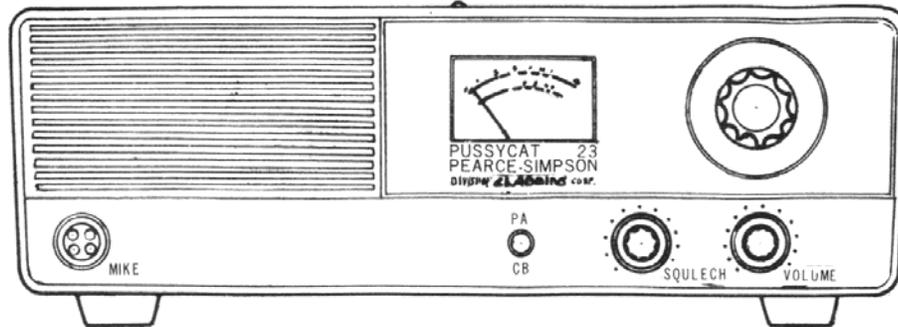


Figure 2

#### CHANNEL SELECTOR

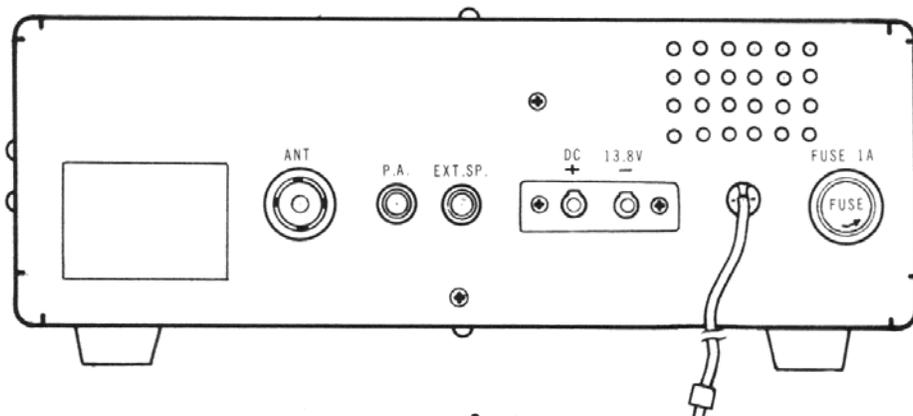
The Channel Selector switch has 23 operating positions. This switch sets both transmit and receive frequencies simultaneously by switching the proper crystals into the circuit for any of the 23 CB channels.

#### VOLUME CONTROL AND ON-OFF SWITCH

This control turns the power ON and OFF, and adjusts the loudness of received signal.

#### SQUELCH CONTROL

The squelch control is used to silence background noise (atmospheric or man-made noise) in the absence of a received radio signal. In the full counterclockwise position, the radio is unsquelched (no noise silencing at all). In the fully clockwise position, the unit is squelched for even very strong signals.



## **PA/CB CHANGE SWITCH**

This switch is used to select the operating mode of either Citizen's Band (CB) or Public Address (PA).

## **S/RF METER**

The meter indicates the relative received signal strength. When transmitting, the meter indicates relative RF out put power.

## **BACK PANEL CONNECTIONS**

ANT connector is for connecting the antenna using a PL-239 connector.

PA jack is for connecting an external Public Address speaker.

EXT. SP. is for connecting a speaker in place of the front panel speaker.

### **CAUTION**

DO NOT PUSH TRANSMIT SWITCH WITHOUT FIRST CONNECTING A 50-OHM ANTENNA OR DUMMY LOAD.

## **OPERATING THE PUSSYCAT 23**

Rotate the VOLUME CONTROL clockwise, to apply power, and advance the VOLUME CONTROL until noise or signal is heard in the speaker. (since your PUSSYCAT 23 uses all transistors, no warmup time is required) With no signal present, rotate the SQUELCH CONTROL clockwise to a position in which no noise is heard Advance this control only for enough to prevent noise from being heard. Advancing it too far may result in a weak station being unable to open the squelch. Since the squelch has been adjusted, with no signal present, when a station transmits on the channel to which your PUSSYCAT 23 is tuned, the squelch circuit will open and the station will be heard. When the station stops transmitting and no signal is received, the squelch gate will be closed and all sound will be "Turned Off". Sometimes noise will build up as a result of a passing CAR, etc. If this happens, the SQUELCH CONTROL should be advanced just for enough to keep the circuit closed during these noise peaks.

Rotate the CHANNEL SELECTOR to the desired channel.

Adjust the volume to a convenient listening level.

To transmit, hold the microphone 2 to 3 inches from your mouth. Normally, it is best to hold it so that you talk across it rather than directly into it. This will prevent the sound of your breathing being transmitted. Hold the Push-to-Talk button on the microphone in, and speak at a normal conversational level.

When your transmission is completed, release the button on the microphone and listen for your reply.

## **WARNING**

FCC Rules require that ALL transmitter adjustments, other than those supplied by the manufacturer as front panel operating controls, be made by or under the supervision of the holder of an FCC issued 1st or 2nd class radio operator license.

## **SECTION 4**

### **MAINTENANCE & SERVICING**

#### **CIRCUIT DESCRIPTION**

Your PUSSYCAT 23 consists of the following circuits: the PEARCE-SIMPSON HetroSync circuit, which provides the receiver injection frequencies and the transmitter carrier frequency; a dual conversion superheterodyne receiver; and an AM-modulated transmitter. It is powered from 13.8V DC source or 120 VAC.

#### **HETROSYNC<sup>®</sup> CIRCUIT**

PEARCE-SIMPSON's method of frequency synthesis makes use of 14 crystals to provide crystal-controlled 23 channel coverage on both transmit and receive functions. The circuit is composed of 37.600 to 37.850 MHz master oscillator (Q113) 10.140 to 10.180 MHz receiver oscillator (Q106), 10.595 to 10.635 MHz transmit oscillator (Q114) and a transmit mixer (Q115). In the transmit function the output of the master oscillator (Q113) and the transmit oscillator (Q114) are fed into the transmit mixer (Q115). The two fundamental frequencies are combined in the mixer, whose output will contain the two frequencies fed in, plus the sum of the two and the difference of the two, as well as combinations of the harmonics of the input. We use only the difference frequency. Let us take Channel 9 as an example. The two input frequencies are 37.700 MHz and 10.635 MHz. The other frequencies present at much lower levels are the harmonic of the two input frequencies such as 21.270 MHz, 31.905 MHz, 42.540 MHz, etc. In addition to these, will be the sum and difference frequencies from the mixing of the various harmonic and fundamental frequencies. Of all these frequencies, only one falls within the passband of the transmitter. This is 27.065 MHz which is the carrier frequency for Channel 9. The nearest unwanted frequency to the carrier frequency is at least 0.955 MHz away and outside of the transmitter passband is adequately suppressed.

#### **TRANSMITTER CIRCUIT**

The transmitter circuit makes use of the carrier frequency signal output of the transmit mixer (Q115), which is part of the HetroSync circuit. The signal is amplified by the buffer (Q116), which is a voltage amplifier, whose output is fed to the driver (Q117), Bandpass transformers L104 and L105 provide the selectivity to select the desired carrier frequency the mixer (Q115) output. The driver is a Class C power amplifier which supplies the necessary RF power at the carrier frequency to drive the final power amplifier (Q118). The final supplies RF power to the antenna through a triple pi-matching network. The primary purpose of a transmitter is to transmit intelligence from one place to another. The function of

the modulator is to put the intelligence on the carrier. To do this, the microphone changes sound (mechanical energy) to electrical energy which is an audio frequency signal. Mic amplifier (Q107) and transmit audio amplifier (Q110) amplify this signal and drive the audio power amplifiers (Q111 & 112). This audio power amplifier varies the supply voltage fed to the driver and final at an audio rate. This variation of the supply voltage varies the amplitude of the carrier output thus producing amplitude modulation.

## **RECEIVER CIRCUIT**

The receiver in the PUSSYCAT 23 is a dual conversion superheterodyne circuit. Channel 9 (27.065 MHz) will be used as an example to show how the receiver circuit works. A signal at 27.065 MHz is received at the antenna and amplified by RF amplifier (Q101) and fed into 1st receiver mixer (Q102). The 27.065 MHz signal is mixed with 37.700 MHz injection from the HetroSync circuit. The 10.635 MHz 1st IF output from the 1st receiver mixer is fed into the 2nd receiver mixer (Q103) along with the 10.180 MHz injection from the HetroSync circuit. The 455 KHz 2nd IF output from the 2nd receiver mixer is amplified by the IF amplifiers Q104 and Q105. Then, the signal is detected by detector diodes CR104 and 105 to remove the audio from the IF carrier. The audio is coupled from the detector through the automatic noise limiter network to the 1st receiver audio amplifier (Q109). This amplifier also acts as a squelch gate. If the squelch control has been properly adjusted, this amplifier is biased off and will not allow any noise to be passed. When a signal is received, the amplifier is biased on and audio is allowed to be passed on to the 2nd audio driver (Q110). Q111 in turn, feeds the audio to the audio power amplifiers (Q111 & 112) which drives the speaker.

## TRANSMITTER SERVICING

### A. TEST EQUIPMENT REQUIRED:

- a) RF output power meter (50 ohm, 5 watts)
- b) Frequency counter
- c) DC mili ampere meter (500/1000 mA)
- d) Power supply (AC 120V or DC 13.8V)
- e) Field strength meter
- f) DC volt meter (30V)
- g) AF signal generator

### B. PROCEDURE:

Remarks: Warm up the unit and test equipment at least 15 minute before starting alignment.

RF output meter or 50 ohm RF dummy load must be connected to ext. antenna jack.

Coupling to frequency counter should be as loose as possible, lest frequency drift should occur by connection.

Step	Set condition	RF output meter connection	Adjustment	Remarks
1.	Receiving position (23 CH.)	DC volt meter to DC terminal	R189	Adjust R189 for 13.8V
2.	Transmitting no modulation (13 CH.)	RF wattmeter to Ant. jack	L104, thru L107 and C162, L111	Adjust for a max. output
3.	Same as step 2.	Readjust L111 as required for 5 watts of DC power input observed with DC milli ampere meter.		
4.	Same as step 2.	Check Frequency on all channels.		
5.	Same as step 2.	Connect Field Strength meter to antenna terminals and adjust L110 so that spurious radiation near 54 MHz. is minimum.		
6.	Same as step 2.	Same as step 3.	R177	Adjust to obtain same RF output power reading on the meter of the unit as on RF output meter connected to the unit.

## RECEIVER SERVICING

### A TEST EQUIPMENT REQUIRED:

- a) Signal generator: 455 KHz and 27 MHz Band, 1,000 Hz.,  
30% AM Modulation & Output  
Impedance 50 ohm.
- b) AF Output Meter (V.T.V.M.)
- c) Power Supply (AC 120V or DC 13.8V)
- d) Dummy Load (8 ohm, 5 watts, Resistive)

### B. PROCEDURE

Remarks: Warm up the unit and test equipment at least 15 minute before starting alignment.

Output Level; Keep signal generator output low enough to prevent AGC overload.

(Below appox. 2 volts on output meter)

Step	Signal Generator Connection	Signal Generator Frequency	Set Condition	Output Meter Connection	Adjustment	Remarks
1.	High side thru 0.01 $\mu$ F to base of Q103 & ground	455 KHz.	Squelch: Minimum Volume: Maximum	From ext. speaker iack, J201	T103, 104,105, 106,107, 108	Adjust for a Max. output
2.	To Antenna Jack	27.115 MHz. (13 CH.)	Same as step 1.	Same as step 1.	L101,102 T101,102	Adjust for a Max. output
3.	Same as step 2.	Same as step 2.	Same as step 1.	Same as step 1.	R201	Adjust for 2V AF output at a signal generator output level of 1 $\mu$ V or less
4.	Same as step 2. and Ant. input 200 $\mu$ V	Same as step 2.	Squelch: Minimum Volume Maximum	Same as step 1.	R202	Adjust for squelch open point
5.	Same as step 2. and Ant. input 100 $\mu$ V	Same as step 2.	Same as step 1.	Same as step 1.	R174	Adjust for S9 reading on "S" meter of the unit.

## TRANSISTOR VOLTAGE CHART

TRNo.	Rx			Tx			PA		
	B	E	C	B	E	C	B	E	C
Q101	3.0	2.2	7.4						
Q102	2.5	3.4	8.2						
Q103	1.0	1.0	8.5						
Q104	2.5	3.0	8.2						
Q105	1.6	1.0	8.0						
Q106	1.6	1.0	5.4						
Q107				2.6	2.9	6.1	2.6	2.9	6.1
Q108	0(0.9)	0.2	4.0(0.2)						
Q109	1.7	1.1	6.2	1.7	1.1	6.2	1.7	1.1	6.2
Q110	3.1	2.6	9.0	3.1	2.6	9.0	3.1	2.6	9.0
Q111	0.65	0.01	13.8	0.65	0.01	13.8	0.65	0.01	13.8
Q112	0.65	0.01	13.8	0.65	0.01	13.8	0.65	0.01	13.8
Q113	1.3	1.4	8.0						
Q114				1.9	1.4	9.0			
Q115				0.12	0	6.0			
Q116				1.6	1.0	8.1			
Q117				-0.04	0	9.0			
Q118				-0.7	0	9.0			
Q119	13.0	13.8	0.6	12.8	13.8	13.0	12.8	13.8	13.0
Q120	14.6	13.8	23.0	14.6	13.8	21.0			
Q121	15.4	14.6	23.0	15.4	14.6	21.0			
Q122	6.5	6.0	15.3	6.5	5.9	15.3			

In PA-MODE, the PTT switch should be depressed when making measurements.

Remarks: (1) B : Base, E: Emitter, C: Collector

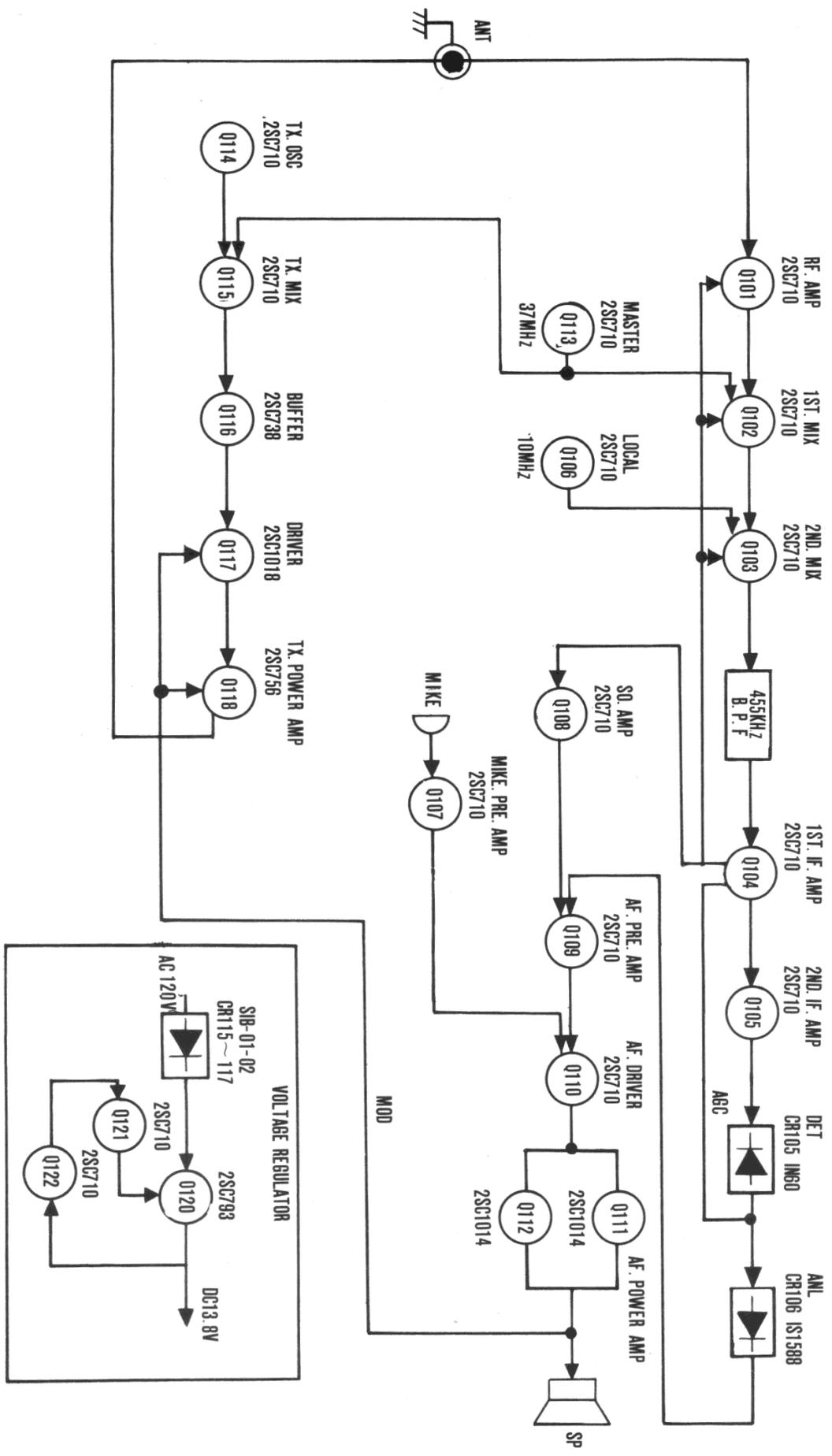
(2) Operating voltage 13.8V DC.

(3) Unit: V

(4) The voltages were measured by V. T. V. M.

(5) ( ) : at SQ ON

# BLOCK DIAGRAM



## SECTION 5 REPLACEMENT PARTS

### PUSSYCAT PARTS LIST

TEM	P.S. STOCK NUMBER	BELTEK	DESCRIPTION
1	5001-002	52-020-108-0	TRANSISTOR 2SC 710C
2	5001-010	52-020-137-0	TRANSISTOR 2SC 1014C2
3	5001-044		TRANSISTOR DRIVER 2SC 1018
4	5001-068		RF AMP. TRANSISTOR 2SC 756
5	5001-080	52-050-021-0	DIODE IN 60
6	5001-083	52-051-009-0	DIODE IS 1588
7	5001-125	52-053-017-0	DIODE BZ 090
8	5001-135	52-054-009-0	DIODE S1B-01-02
9	5001-160	52-053-023-0	DIODE YZ 058
10	5001-508	52-020-149-0	TRANSISTOR 2SC 793Y
11	5001-509	52-010-109-0	TRANSISTOR 2SA 696D
12	5001-510	52-020-121-0	TRANSISTOR 2SC 738C
13	5003-112	75-010-037-0	CRYSTAL 37.600 MHz.
14	5003-113	75-010-038-0	CRYSTAL 37.650 MHz.
15	5003-114	75-010-039-0	CRYSTAL 37.700 MHz.
16	5003-115	75-010-040-0	CRYSTAL 37.750 MHz.
17	5003-116	75-010-041-0	CRYSTAL 37.800 MHz.
18	5003-117	75-010-042-0	CRYSTAL 37.850 MHz.
19	5003-118	75-010-043-0	CRYSTAL 10.140 MHz.
20	5003-119	75-010-044-0	CRYSTAL 10.160 MHz.
21	5003-120	75-010-045-0	CRYSTAL 10.170 MHz.
22	5003-121	75-010-046-0	CRYSTAL 10.180 MHz.
23	5003-122	75-010-047-0	CRYSTAL 10.595 MHz.
24	5003-123	75-010-048-0	CRYSTAL 10.615 MHz.
25	5003-124	75-010-049-0	CRYSTAL 10.625 MHz.
26	5003-125	75-010-050-0	CRYSTAL 10.635 MHz.
27	5004-017		MICROPHONE W/ PLUG, CORD, & PLATE
28	5005-006		MICROPHONE COIL CORD
29	5006-269		L101 141-0
30	5006-270		L102 142-0
31	5006-271		L103 363
32	5006-272		L104 L105
33	5006-273		L106
34	5006-274		L107
35	5006-275		L108
36	5006-276		L109
37	5006-277		L110 L111
38	5006-278		L115 L112 MICRO INDUCTOR 220

TEM	P.S. STOCK NUMBER	BELTEK	DESCRIPTION
39-5	5006-279		T101 T102 1630
40	5006-280		T103 1440
41	5006-281		T104 105 106 145 0
42	5006-282		T107 108 146 0
43	5007-040	56-010-051-1	POWER TRANSFORMER
44	5007-041	56-020-041-0	MODULATION TRANSFORMER
45	5007-042		DRIVER TRANSF. T109 020-029
46	5007-043		LINE CHOKE L113 050-008
47	5008-086		TRIMMER 30K OHM 3P R177
48	5008-009		TRIMMER 5K OHM 3P R152
49	5008-072		TRIMMER 10K OHM 3P R117
50	5008-073		TRIMMER 1K OHM 3P R189
51	5008-084	85-900-015-0	VOLUME CONTROL WITH SWITCH
52	5008-085	85-900-016-0	SQUELCH CONTROL 5K OHM B
53	5009-056	58-100-132-0	SLIDE SW PA/CB
54	5009-057	58-030-026-0	ROTARY SW, CHANNEL SELECTOR
55	5010-009		ANTENNA RECEPTICLE
56	5010-012		MINIATURE JACK SJ296
57	5010-019		MICROPHONE CHASSIS RECEPTICLE SM 144
58	5010-021		MICROPHONE PLUG SM144
59	5010-054		DC POWER TERMINAL BOARD
60	5012-002	57-010-057-0	SPEAKER 8 OHMS
61	5013-023		12VOLT 50MA LAMP WIRE CHANNEL DIAL
62	5013-033		CARTRIDGE LAMP FOR METER
63	5014-023	63-010-020-0	METER
64	5015-011		AC POWER CORD
65	5016-019		TRIMMER CAPACITOR C162
66	5019-001		1 OHM 1/2 WATT R171
67	5019-015		CF 201 SURGE LIMITER
68	5020-081	12-535-001-0	FRONT PANNEL ASSEMBLY
69	5020-082		TOP CABINET COVER
70	5020-083		BOTTOM COVER
71	5021-073		RUBBER PEDESTAL
72	5022-063		CHANNEL INDICATING DIAL
73	5022-064		CHANNEL KNOB
74	4022-068		VOLUME AND SQUELCH KNOB
75	5027-105		WOOD GRAIN BRAND PLATE
76	5027-106		BRUSHED ALUMINUM CONTROL PLATE
77	5028-001		FUSE 2 AMP
78	5028-003	64-010-001-1	FUSE 1 AMP
79	5030-057		DISPLAY BOX
80	5031-058		PACKING INSERTS
81	5031-035		OWNERS MANUAL

## **FACTORY WARRANTY POLICY**

This electronic equipment, manufactured by Pearce-Simpson, Inc., is warranted in accordance with the following terms and conditions —

**A. PEARCE-SIMPSON, INC. WILL:**

Replace any defective part of this equipment during the 90 day period following purchase.

Repair, at our factory, without charge, this equipment, if a defect develops during the first 90 days following purchase.

(This repair service is free only at the factory. No reimbursements can be made for non-factory repair charges.)

**B. THE PURCHASER WILL:**

Return the warranty registration card within 10 days of purchase.

Pay all transportation charge involved when equipment is returned for factory repair, provide information regarding nature of failure, and accept freight collect shipment of repaired equipment.

The above is void if equipment is modified or repaired without authorization, subjected to misuse, abuse, accident, water damage or other neglect, or has its serial number defaced or removed, or if more than 18 months has elapsed since factory shipment date to dealer.

No obligation is assumed by Pearce-Simpson, Inc., to update previously manufactured equipment.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with sale of our products.

**PEARCE-SIMPSON**  
DIVISION OF **GLADDING** CORPORATION

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P.O. BOX 800 BISCAYNE ANNEX MIAMI, FLORIDA 33152

**Other Gladding Outdoor Recreation Products Include:** Gladding-Hedlund Water Skis; Gladding-Kalamazoo Sleds; Del-Rey Campers and Recreational Vehicles; Gladding-Ranger Sleeping Bags, Bowling, School, Club and Utility Bags; Gladding-South Bend Fishing Tackle; H-I Fishing Tackle; Gladding-Fishing Lines; Gladding-Marine Ropes and Cords; Pearce-Simpson Marine Communications Equipment; Del-Rey Campers and Travel Trailers; Omega Motor Homes and Travel Trailers; Aqua-Float Life Vests, Life Belts and Ring Buoys; Claricon Home Stereo Sets; Carter Sportswear and Outer Clothing.