

# **OPERATING INSTRUCTIONS**

*for*

**TYPE CKB-50142**

## **NOISE PEAK LIMITER**

**FOR USE WITH MODEL RAS RADIO EQUIPMENT**

**MANUFACTURED FOR**

**NAVY DEPARTMENT BUREAU OF SHIPS**

**by**

**MISSION BELL RADIO MANUFACTURING CO., INC.**

**LOS ANGELES, CALIFORNIA**

**(Serial Numbers of Equipment 1-2280)**

**CONTRACT NX<sub>66</sub>-31380**



## TYPE CKB-50142 NOISE PEAK LIMITER

### III TUBE COMPLEMENT

3-1.— The tubes employed in the CKB-50142 Noise Peak Limiter are as follows:

<u>SYMBOL</u>	<u>NAVY TYPE</u>	<u>COMMERCIAL TYPE</u>	<u>FUNCTION</u>
V101	.....	6SQ7	Diode—Half wave detector. Triode—Audio amplifier
V102	6SN7GT	6SN7GT	1st Triode—Diode Limiter 2nd Triode—Power AVC

### IV INSTALLATION

4-1.—Installation of unit must be made with all voltages off.

4-2.—Remove second detector tube V107 AB and plug the noise limiter into the socket and replace grid cap (A) on the stud protruding through coil shield.

4-3.—Tighten clamp (B) on the base of the Noise Peak Limiter around the base of the tube shield.

4-4.—Fig. 2 shows Noise Peak Limiter mounted in a RAS Receiver.

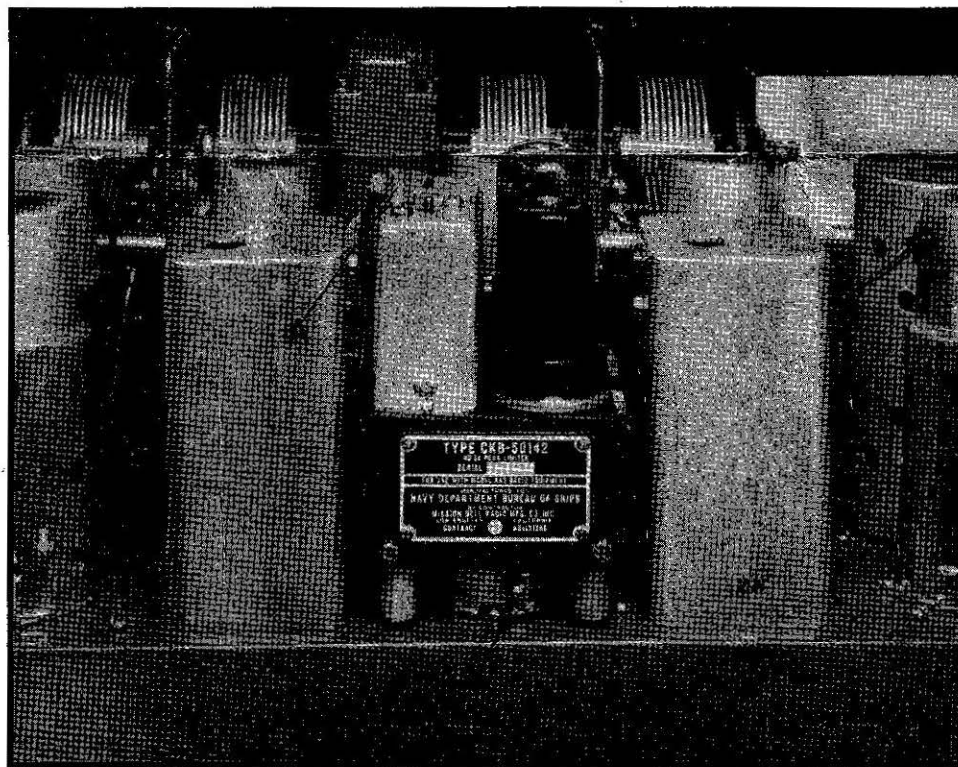


FIGURE 2

### V OPERATING INSTRUCTIONS

5-1.—The operation of the Type CKB-50142 Noise Peak Limiter is automatic, and therefore, does not change the normal operation of the receiving equipment.

**TABLE I**  
**PARTS LISTED BY SYMBOL DESIGNATION FOR MODEL RAS NOISE PEAK LIMITER**

<i>Symbol Desig.</i>	<i>Function</i>	<i>Description</i>	<i>Navy Type No.</i>	<i>Navy Dwg. or Spec. Number</i>	<i>Mfr.</i>	<i>Mfr's. Design.</i>	<i>Mission Bell Dwg. No.</i>
<b>CAPACITORS</b>							
C-101	R. F. Filter	100 Mmfd $\pm 10\%$ 500V DCW Mica	48674-B10	RE 13A 389M	5	MW-1216-10	15-A3018-1
C-102	R. F. Filter	Same as C-101	48674-B10	RE 13A 389M	5	MW-1216-10	15-A3018-1
C-103	Cathode By Pass.	25 Mfd 25V CW Electrolytic	.....	RE 13A 549A	2	.....	17-A3002-1
C-104	Grid Coupling	.04 Mfd $\pm 10\%$ -3% 200V DCW paper	48430	RE 13A 488E	2	HC-507-3	15-A3006-1
C-105	AVC Filter	.1 Mfd $\pm 10\%$ 200V DCW paper	.....	.....	8	.....	17-A3001-1
C-106	Coupling	Same as C-104	48430	RE 13A 488E	2	HC-507-3	15-A3006-1
C-107	Coupling	25 Mmfd $\pm 10\%$ 500V DCW mica	.....	RE 48A 154	5	CD-5W5-5Q25	15-A3009-1
C-108	Tuning	100 Mmfd $\pm 2\%$ Silver Mica	.....	RE 13A 389M	5	MWS-100-2	17-A3003-1
<b>RESISTORS</b>							
R-101	R. F. Filter	10,000 ohm $\pm 10\%$ $\frac{1}{2}$ W Comp. Pigtail	.....	RE 13A 340C	6	.....	17-A1002-1
R-102	Grid	500,000 ohm $\pm 10\%$ $\frac{1}{2}$ W Comp. Pigtail	.....	RE 13A 340C	6	.....	17-A1023-1
R-103	Cathode Bias	2000 ohm $\pm 10\%$ $\frac{1}{2}$ W Comp. Pigtail	.....	RE 13A 340C	6	.....	17-A1003-1
R-104	Filter	Same as R-102	.....	RE 13A 340C	6	.....	17-A1023-1
R-105	Filter	Same as R-102	.....	RE 13A 340C	6	.....	17-A1023-1
R-106	Diode Load	Same as R-102	.....	RE 13A 340C	6	.....	17-A1023-1
R-107	Plate Load	1 Megohm $\pm 10\%$ $\frac{1}{2}$ W Comp. Pigtail	63360	RE 13A 340C	6	.....	15-A1029-1

**TABLE II**  
**LIST OF MANUFACTURERS**

<i>Code No.</i>	<i>Mfr. Prefix</i>	<i>Name</i>	<i>Address</i>
1	CPH	American Phenolic Corp.	Chicago, Illinois
2	CD	Cornell Dubilier Electric Corp.	So. Plainfield, New Jersey
3	.....	Precision Radio Products	Los Angeles, California
4	CRC	RCA Radiotron Division	Harrison, New Jersey
5	CSL	Solar Manufacturing Co.	Bayonne, New Jersey
6	CSA	The Stackpole Carbon Co.	St. Marys, Pennsylvania
7	CKB	Mission Bell Radio Mfg. Co., Inc.	Los Angeles, California
8	CIE	Industrial Cond. Corp.	Chicago, Illinois