

INSTRUCTION MANUAL

Clegg

INTERCEPTOR ALLBANDER

CLEGG LABORATORIES DIVISION
Squires-Sanders, Inc.

I. DESCRIPTION

A. General

The Clegg INTERCEPTOR ALLBANDER HF converter/speaker combination has been designed for use with the Clegg INTERCEPTOR and Clegg INTERCEPTOR B six and two meter receiver. This unit will provide the INTERCEPTOR owner with complete coverage of the frequencies from 3 to 22 MC and 27 to 31 MC. This includes WWV, all the amateur bands, and the foreign short wave broadcast bands. The speaker included with the ALLBANDER has an impedance of 4 ohms.

B. Features

1. Built in 4 ohm speaker with design emphasis on voice frequencies which continues to function when the INTERCEPTOR is switched to two or six meters.
2. Converts INTERCEPTOR and INTERCEPTOR B to general coverage receiver covering 3 to 22 MC and 27 to 31 MC.
3. Instant band switching without wiring changes or external antenna switching.
4. Completely powered by the INTERCEPTOR or INTERCEPTOR B.

C. Specifications

1. Band Coverage: 3-22 MC and 27-31 MC in 23-1 MC ranges.
2. Selectivity: Same as INTERCEPTOR.
3. Sensitivity: Less than 1 μ v for 10 db S + N/N.
4. Image and IF Responses: Down more than 50 db.
5. Frequency Stability: Same as INTERCEPTOR
6. Antenna Input: Low Impedance.
7. Physical Dimensions: 7" W x 7" H x 5 1/2" D.
8. Shipping Weight: 6 lbs.

II. INSTALLATION

A. Unpacking

The Clegg INTERCEPTOR ALLBANDER has been packed with adequate internal carton bracing and cushioning to withstand normal handling in shipment on common carriers. Examine the carton exterior for signs of severe damage (crushing, piercing etc.). In the event of obvious serious damage, examine the equipment carefully to determine the extent of internal damage, save the packing material and make claim against the transportation company.

Check both front panel controls for freedom of action and observe that the tube and all crystals are firmly seated in their sockets. Complete and mail the equipment registration card.

B. Cabling

All cables are provided. The following connections to the INTERCEPTOR or INTERCEPTOR B should be made:

1. Plug the ALLBANDER eight pin plug into the auxiliary socket J1 on the INTERCEPTOR.*
2. Plug the short shielded cable (Phono plug) into the INTERCEPTOR speaker output J9.
3. Plug the remaining longer cable (Phono plug) into the INTERCEPTOR external convertor jack (located between the 6M and 2M antenna receptacles).
4. Connect a suitable HF antenna to the antenna receptacle. Refer to ARRL Antenna Handbook for detailed information.

*Note: If the INTERCEPTOR is presently muted through pins #5 and #8 of J1 on the INTERCEPTOR it will now be necessary to connect these muting wires to pins #5 and #8 on the INTERCEPTOR ALLBANDER plug.

III. OPERATION

A. Panel Controls

1. Frequency Control:

6 positions: 3-7 MC, 7-11 MC, 11-15 MC,
14-18 MC, 18-22 MC, 27-31 MC.

2. Pre-Selector Control:

Peaks convertor on desired signal.

3. Antenna Receptacle:

SO 239 receptacle will accept a PL 239 plug.
This unit is designed for low impedance input.

B. Operating Procedure

1. Set the INTERCEPTOR ALLBANDER FREQUENCY CONTROL to the desired band segment.

Example: 3-7 MC etc.

2. Pre-set the following INTERCEPTOR CONTROLS:

- a) Upper right hand selector switch to CONVERTER position.
- b) Lower right hand segment selector switch to desired 1 megacycle segment.

Example: If the FREQUENCY CONTROL is set to the 3-7 MC position this switch will select the following frequencies:

POSITION #1	3 to 4 MC
POSITION #2	4 to 5 MC
POSITION #3	5 to 6 MC
POSITION #4	6 to 7 MC

- c) The main tuning dial may now be tuned to the desired frequency.

3. All other INTERCEPTOR CONTROLS should be set at their normal position for the receiving mode selected i.e. AM CW SSB.

4. Now peak the INTERCEPTOR ALLBANDER PRE-SELECTOR CONTROL for maximum signal strength. This control should be peaked again after any major frequency change.

5. Easy band switching is accomplished by moving the upper right hand selector switch to the CONVERTOR position. This switch puts B+ on the ALLBANDER and switches the ALLBANDER input to the INTERCEPTOR. All three antennas may be connected at the same time for ease of operation.

SECTION VI

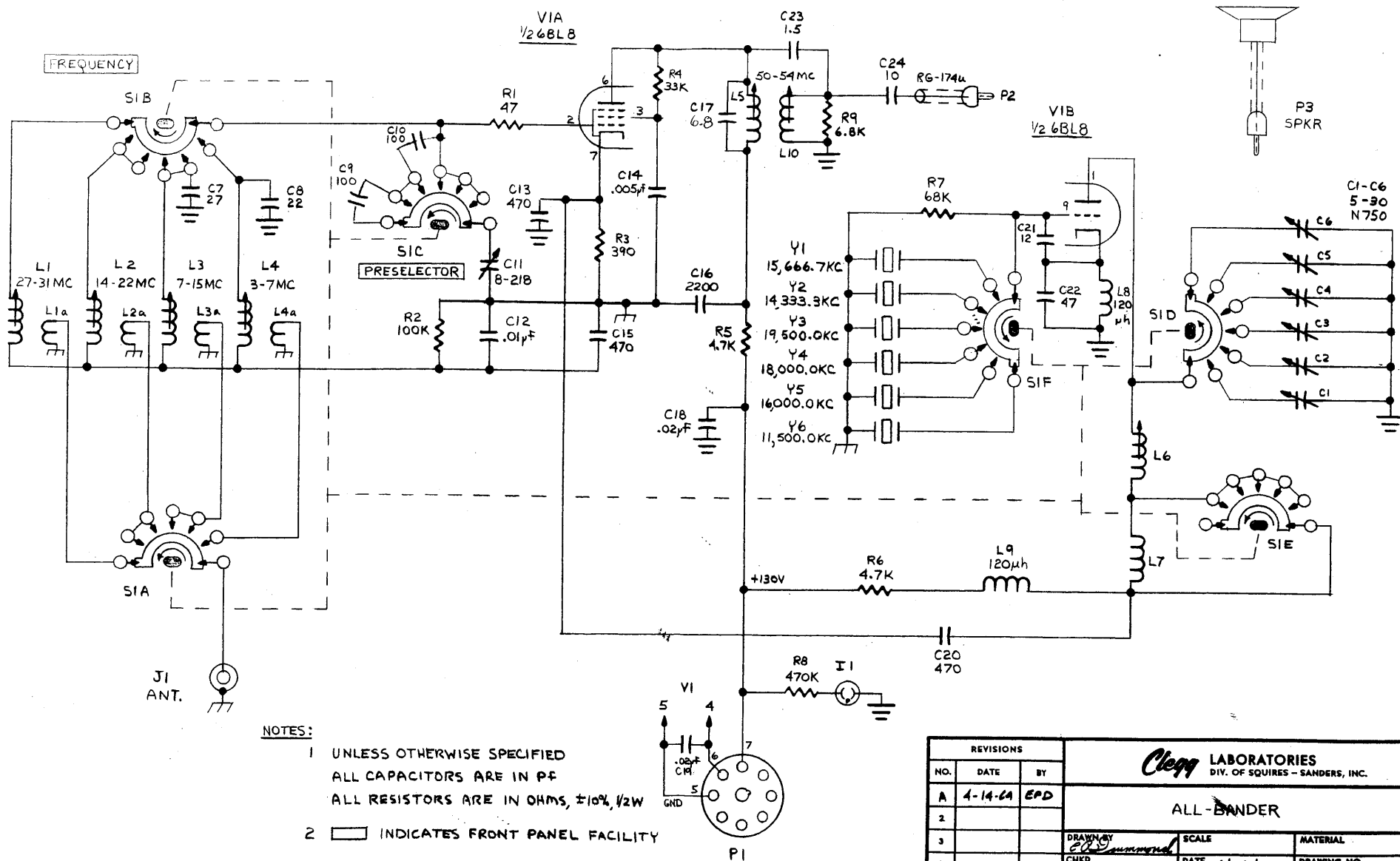
ALLBANDER

ELECTRICAL PARTS LIST

ITEM	DESCRIPTION	PART NUMBER
C1-C6	VARIABLE, TRIMMER, 5-30 pf, N 750	116-114
C7	FIXED, CERAMIC, 27 pf, NPO, $\pm 5\%$, IKV	100-117
C8	FIXED, CERAMIC, 22 pf, NPO, $\pm 5\%$, IKV	100-116
C9,C10	FIXED, CERAMIC, 100 pf, GP, $\pm 20\%$, 500 V	102-063
C11	VARIABLE, AIR, 8-218 pf	110-021
C12	FIXED, CERAMIC, .01 MFD, GP + 80 - 20%, IKV	102-054
C13	FIXED, CERAMIC, 470 pf, GP, + 80 - 20%, IKV	102-032
C14	FIXED, CERAMIC, .005 MFD, GP, + 80 - 20%, IKV	102-050
C15	FIXED, CERAMIC, 470 pf, GP, + 80 - 20%, IKV	102-032
C16	FIXED, CERAMIC, 2200 MFD, GP, + 80 - 20%, IKV	102-043
C17	FIXED, CERAMIC, 6.8 pf, NPO, $\pm 5\%$, IKV	100-110
C18,C19	FIXED, CERAMIC, .02 MFD, GP, + 80 - 20%, 500 V	102-056
C20	FIXED, CERAMIC, 470 pf, GP, + 80 - 20%, IKV	102-032
C21	FIXED, CERAMIC, 12 pf, NPO, $\pm 5\%$, IKV	100-113
C22	FIXED, CERAMIC, 47 pf, NPO, $\pm 5\%$, IKV	100-120
C23	FIXED, CERAMIC, 1.5 pf, NPO, $\pm .25\%$, IKV	100-102
C24	FIXED, CERAMIC, 10 pf, NPO, 5%, IKV	100-112
I1	LAMP, PILOT W/HOLDER, RED LENS	153-002
L1	SLUG-TUNED, .63 μ h	182-020
L2,L3	SLUG-TUNED, 2 μ h	182-022
L4	SLUG-TUNED, 12 μ h	182-021
L5	SLUG-TUNED, .5-1 μ h	182-007
L6	SLUG-TUNED, .75 μ h	182-023
L7	FIXED INDUCTOR, 1 μ h	190-014
L8,L9	RFC, 120 μ h	190-008
L10	SLUG-TUNED, .5-1 μ h	182-007
R1	FIXED, COMPOSITION, 47 ohm, 10%, 1/2 W	223-470
R2	FIXED, COMPOSITION, 100 K, 10%, 1/2 W	223-104
R3	FIXED, COMPOSITION, 390 ohm, 10%, 1/2 W	223-391
R4	FIXED, COMPOSITION, 33 K, 10%, 1/2 W	223-333
R5,R6	FIXED, COMPOSITION, 4.7 K, 10%, 1/2 W	223-472
R7	FIXED, COMPOSITION, 68 K, 10%, 1/2 W	223-683
R8	FIXED, COMPOSITION, 470 K, 10%, 1/2 W	223-474
R9	FIXED, COMPOSITION, 6.8 K, 10%, 1/2 W	223-682
S1,A,B, C,D,E,F	6 POLES, 6 POSITIONS, 6 SECTIONS, ROTORY SWITCH	276-003

PARTS LIST (Cont'd)

ITEM	DESCRIPTION	PART NUMBER
V1	ELECTRON TUBE, 6BL8	216-012
Y1	15,666.7 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-027
Y2	14,333.3 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-028
Y3	19,500.0 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-029
Y4	18,000.0 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-030
Y5	16,000.0 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-031
Y6	11,500.0 KC FUNDAMENTAL, $\pm .005\%$, HC 6/u	250-032



REVISIONS			Clegg LABORATORIES DIV. OF SQUIRES - SANDERS, INC.		
NO.	DATE	BY			
1	4-14-64	EPD	ALL-BANDER		
2					
3					
4					
5					
DRAWN BY EPD			SCALE	MATERIAL	
CHKD			DATE 4/14/64	DRAWING NO.	
TRACED			APPD GS 4-14-64		