



# SERVICE BULLETIN

EQUIPMENT SERIES: 32S

BULLETIN NO. 5

DATE: 6-11-63

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EQUIPMENT TYPE: TRANSMITTER 32S-3

SUBJECT: IMPROVEMENT IN VOX CIRCUIT TO ELIMINATE INTERMITTENT DROPOUT

The modification in this service bulletin is to improve the vox circuit to eliminate intermittent dropout of the vox relay that may occur in some units during normal SSB transmission. This modification alters the VOX/ANTI-VOX circuit gain and changes associated time constants to make this improvement in vox operation.

It is suggested that this modification be made to units which have experienced vox relay dropout difficulties.

## MODIFICATION PROCEDURE:

1. Remove 32S-3 cabinet as follows:
  - a. Disconnect all power and external connections.
  - b. Lift the lid, and remove the two unpainted screws located at the front edge of the rim.
  - c. Remove the four feet, and the screw located midway between rear feet.
  - d. From the rear, push the transmitter chassis forward until the front panel protrudes from the cabinet about an inch.
  - e. Grasping the front panel at the edges, slide the transmitter out of the cabinet. Turn transmitter upside down on suitable work bench.

NOTE: REFER TO ATTACHED DIAGRAM FOR COMPONENT LOCATIONS, AND PIN AND TERMINAL DESIGNATIONS OF COMPONENTS.

2. Substitute a 0.02-uf capacitor (913-2142-00) for 0.1-uf capacitor C119. C119 is located between pin 5 of XV10 and terminal 11 of K1.
3. Install 0.1-uf capacitor C186 (913-3152-00) between pins 5 and 7 of XV10.
4. Install 20-uf capacitor C184 (183-1165-00) between pin 8 of XV14 and terminal 3 of TB7. Positive (+) lead should go to pin 8 and negative (-) lead to terminal 3.

5. Install 20-uf capacitor C185 (183-1165-00) between pin 3 of XV14 and terminal 2 of TB5. Positive (+) lead should go to pin 3 and negative (-) lead to terminal 2.
6. Turn transmitter right side up and jumper no. 22 AWG bus wire (421-2220-00) between terminals 10 and 11 of switch S9F. S9 is the FREQ CONTROL switch in the upper left corner of the front panel; S9F consists of terminals 9, 10, 11, and 12 of wafer A.
7. Install 20-uf capacitor C183 (183-1165-00) between terminal 10 of S9F and nearby grounding lug on front panel.
8. Replace transmitter chassis in cabinet and return to operation.

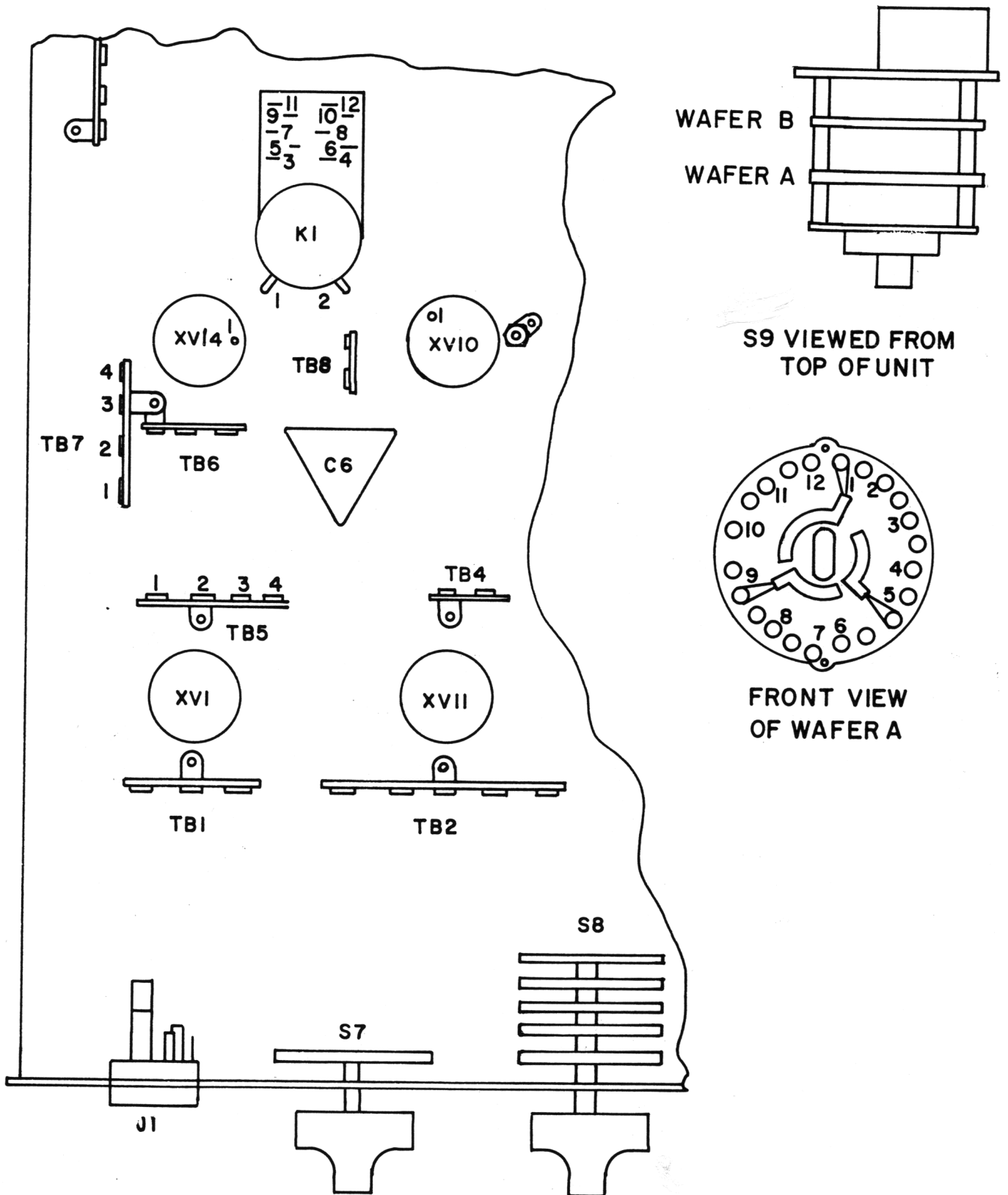
PARTS REQUIRED:

Price: \$2.51

Modification kit 554-6679-00 which consists of the following items:

<u>Qty</u>	<u>Description</u>		<u>Collins Part Number</u>
1	Capacitor, 0.02 uf	C119	913-2142-00
3	Capacitor, 20 uf	C183, C184, C185	183-1165-00
1	Capacitor, 0.1 uf	C186	913-3152-00
0.5 (ft)	Wire, no. 22 AWG bare bus		421-2220-00

The above parts may be obtained from Collins Radio Company, Service Parts Department, Cedar Rapids, Iowa at no charge for orders received prior to December 31, 1963. All orders should specify modification kit 554-6679-00 and make reference to 32S Service Bulletin No. 5. The price indicated is subject to change without notice.



32S-3 Chassis. Partial View Showing Location of Components Affected by this Modification.