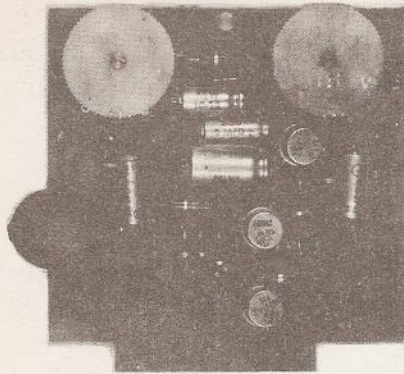


Serial 5305 P 886

VOX III

"Vest Pocket Vox"



Manual # 183-31
Price \$0.50

SECTION I

1-1 UNPACKING - CLAIMS

DAMAGE: This equipment has been carefully packed for safe arrival IF PROPERLY HANDLED ENROUTE.

(a) OBVIOUS DAMAGE

If the carton showed signs of rough handling you should have made such notation on the delivering carriers receipt. If inspection shows obvious damage such as loose parts, broken parts, etc., the delivering carrier must be contacted immediately and a joint inspection made with this carriers agent. The joint inspection is NOT a claim but an acknowledgement that the equipment was damaged. The form does not assign responsibility for the damage, but prepares the foundation on which to file a claim. The carrier will then acknowledge or decline the claim at their main office and a local agent may not decline to enter a claim. If the shipment was parcel post, contact your local postmaster for the necessary forms and he will help you enter the claim.

(b) HIDDEN DAMAGE

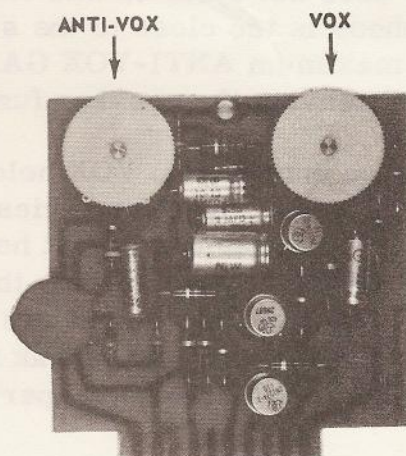
In many cases the carton may not be damaged but the equipment may suffer internal damage not obvious on delivery of the shipment. The procedure for filing the claim would be the same as above.

Remember, the responsibility for safe delivery rests with the carrier. The responsibility in obtaining reimbursement for damage rests with YOU. Prompt action on your part will speed adjustments. Our warranty in no way covers malfunction or damage which is a result of improper handling by a carrier. Under no circumstances should you return merchandise to your dealer before instigating the necessary forms. To do so can jeopardize your investment and the costs of necessary repairs may be a burden you will have to assume. After joint inspection forms have been completed, contact your dealer for assistance.

SECTION II

2-1 LOCATION OF CONTROLS

The VOX III, Vest Pocket VOX has only two controls; VOX GAIN and ANTI-VOX GAIN. These are shown on the picture below with the component side of the printed circuit board showing.



SECTION III

3-1 INSTALLATION

Installation of the VOX III is quite simple. Remove the jumper plug supplied with the GALAXY III from the oblong socket J9, located on the left side of the top of the chassis, viewing the transceiver from the front. Insert the VOX in J9 so the component side of the printed circuit board is towards the middle of the chassis. This places the ANTI-VOX control nearest the front of the set and the VOX GAIN towards the rear. Before inserting the VOX we suggest you turn both controls back and forth a few times to loosen them and remove stiffness.

SECTION IV

4-1 ADJUSTMENT

To adjust the VOX, place the FUNCTION switch on VOX position. Set the MIC gain control at minimum (full counter-clockwise). This will let you turn the set on without transmitting a signal. Set both controls at minimum gain. Minimum gain is with the controls counter-clockwise as you view the component side of the board or, if you place your finger on the top of the control, roll them back towards the front of the transceiver. Tune in a fairly strong signal on the receiver and set the receiver audio volume to a comfortable listening level. Turn the ANTI-VOX gain to maximum (clockwise). Start speaking into the microphone and slowly turn the VOX GAIN until the transmitter goes on, close talking into the mic. Now retard the ANTI-VOX GAIN to the point the VOX does not cycle on and off. If the audio volume is set too high or the microphone is too close to the speaker, you may find the VOX will cycle even with maximum ANTI-VOX GAIN. This will require either less audio volume or moving the speaker further from the microphone.

The VOX 35 uses a fixed time constant on VOX holding which is about one second maximum. The duration of hold time varies slightly with the level the controls are set at. The operator can adjust hold time considerably by variation of speaking close or at a distance from the microphone. To hold longer, speak closer and louder to the microphone (adjusting MIC. gain to keep power input proper). To shorten hold, speak further or softer from the microphone (increasing MIC. gain to obtain proper power input).

SECTION V

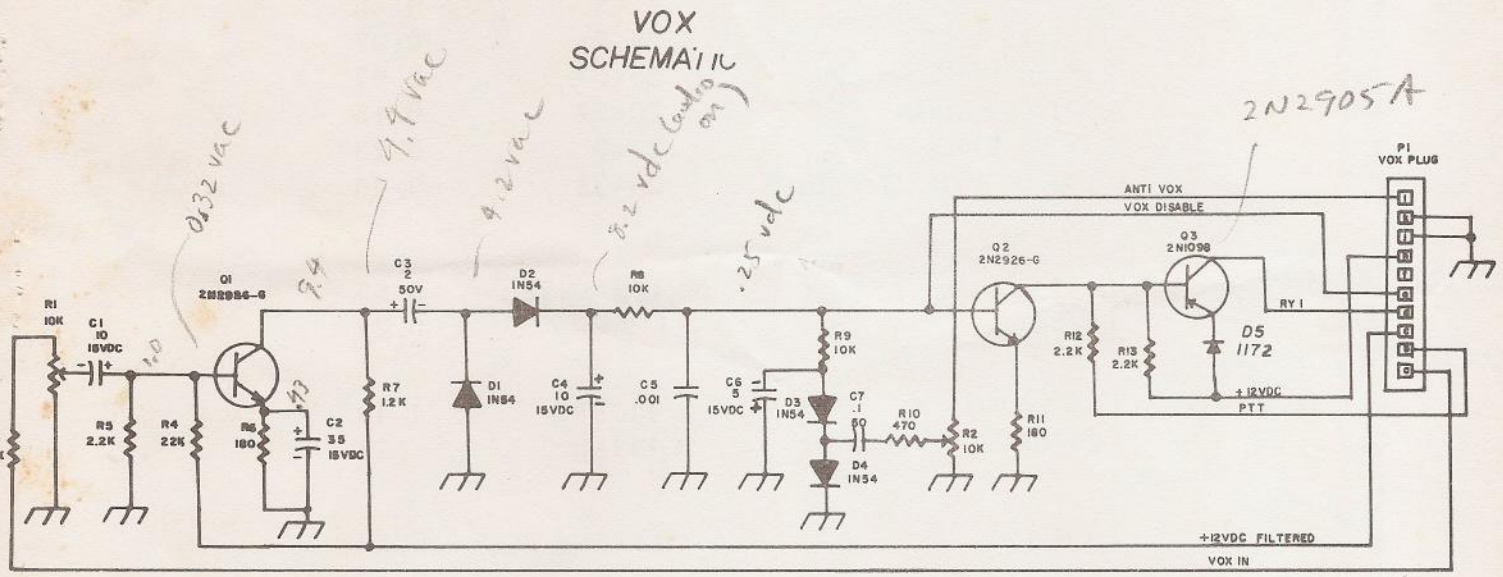
5-1 TESTING RESISTANCE AND SCHEMATIC

As the VOX 35 is on a board that is sealed and baked with "Troplite" for resistance to moisture and dirt, it is not generally practical to service in the field. We are, therefore, giving only a resistance measurement chart of the socket terminals so the user may determine if a malfunction is possibly in the VOX or the transceiver. If the resistance checks considerably different from the chart the trouble most likely will be the VOX. In such case, it is best to return to our factory for service.

SECTION V

5-1 TESTING RESISTANCE AND SCHEMATIC

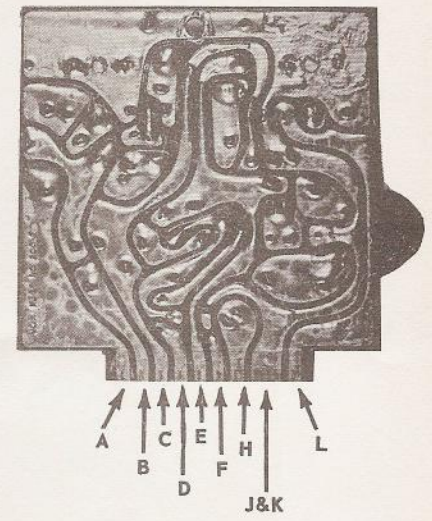
2N2926-G repl. w 2N3565



DATE 2-1-66
DRAWN BY
APPROVED BY

REVISED 3-3-65

TERMINAL #	NORMAL RESISTANCE
A -----	32,000 Ohms
B -----	30,000 Ohms (or up to 4 meg.)
C -----	22,000 to 25,000 Ohms
D -----	220,000 Ohms to infinity
E -----	14,500 Ohms
F -----	Infinity (open circuit)
H -----	30,000 Ohms (or up to 4 Meg.)
J -----	0 Ohms (short)
K -----	0 Ohms (short)
L -----	10,000 Ohms



Note: All measurements made with the VOX removed from the set, using a Hewlett Packard VTVM #410B. DO NOT use a VOM for measurement. Setting of the controls of no importance. Measurements made from terminal K as a common point. Some variation may occur with various settings of meter range switch of #410B.

SECTION VI

6-1 PARTS LIST

Capacitors

C1, C4	10 @ 15 VDC	29-5	\$ 0.85
C2	35 @ 15 VDC	29-7	0.87
C3	2 @ 50 VDC	29-6	0.97
C5	.001 Ceramic	20-24	0.15
C6	5 @ 15 VDC	29-8	0.73
C7	.1 @ 50 VDC Ceramic	20-38	0.45

Diodes

D1, D2, D3, D4	IN54A	112-IN54A	0.95
D5	1172	112-1172	0.27

Transistors

Q1 and Q2	2N2926-G	111-6G	1.40
Q3	2N1098	111-8	.75

Resistors

R1, R2	10 K Pot	13-11	0.90
R3, R4	22 K 1/2 watt	10-6	0.12
R5, R12, R13	2.2 K 1/2 watt	10-31	0.12
R6, R11	180 ohm 1/2 watt	10-71	0.12
R7	1.2 K 1/2 watt	10-73	0.12
R8, R9,	10 K 1/2 watt	10-56	0.12
R10	470 ohm 1/2 watt	10-53	0.12

Miscellaneous

Control knobs, Vox and Anti-Vox		13-11	0.90
Rubber bumper		132-2	0.05

SECTION VII

7-1 SERVICE AND RETURNS

All correspondence should be addressed:

GALAXY ELECTRONICS
10 SOUTH 34th St.
COUNCIL BLUFFS, IOWA