



# SERVICE BULLETIN

COLLINS RADIO COMPANY

Cedar Rapids, Iowa 52406

SERVICE BULLETIN NO.1

Date 4-19-56  
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EQUIPMENT TYPE: KWS-1 TRANSMITTER

SUBJECT: PREVENT OFF FREQUENCY OSCILLATION APPEARING ON THE OUTPUT

It has been determined that the current through the voltage regulator tubes V105 and V106 is exceeding the tube ratings and has caused an oscillation to appear on the output approximately 15KCs removed from the operating frequency. This condition can be eliminated by the insertion of a 1000 ohm resistor in series with the input of the VR tubes which reduces the current drain.

In production units with serial number 372 and above this modification is accomplished by changing the value of R131 from 1800 ohm to 2700 ohms. The following procedure is recommended for field modification on serial numbers 371 and below.

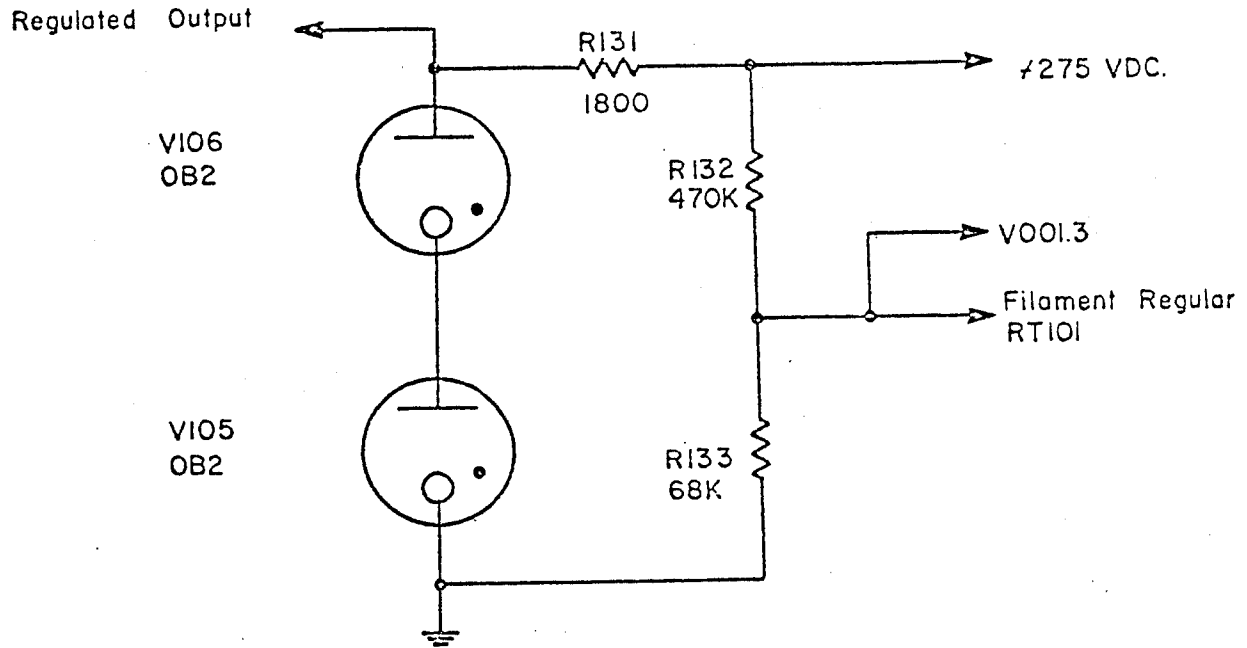
1. Remove bottom cover from Exciter/Power Amplifier.
2. Remove the white lead with red tracer, coming from the oscillator housing assembly, from the B / insulated terminal beside the VOX relay.
3. Install an insulated terminal, CPN 306 0234 00, on the RF Chassis using the screw which holds the solder lugs to which the yellow coax shields are tied.
4. Connect a 1000 ohm 2 watt resistor, CPN 745 5652 00, between the B / terminal and the newly installed terminal.
5. Connect the white lead with read tracer removed in step 2 above to the newly installed terminal.
6. Replace bottom cover.

Parts required for modification:

<u>Qty.</u>	<u>Description</u>	<u>Collins Part Number</u>
1	Resistor 1000 ohm 2 watt ± 10%	745 5652 00
1	Terminal, Insulated	306 0234 00

For modification parts, price quotations (minimum order charge is \$15.00), and availability contact Collins Radio Company, Service Parts Department, Cedar Rapids, Iowa 52406. All parts orders must specify the Collins modification kit number, or part numbers, quantity required, and reference this service bulletin.

BEFORE MODIFICATION



AFTER MODIFICATION

