

COLLINS

# COLLINS RADIO COMPANY

CEDAR RAPIDS, IOWA, U. S. A.

AMATEUR SERVICE AGENCY BULLETIN

NO. 1002

DATE: August 1, 1960

EQUIPMENT TYPE: KWM-2, KWM-2A

SUBJECT: Audio Squeal in Transmit When AF GAIN Control is Advanced

This problem is caused by a positive feedback path at the oscillation frequency through R164 and the primary to secondary capacitance of audio output transformer T6.

#### Correction Procedure:

1. Change C104 from a 0.0047-uf capacitor to a 0.01-uf capacitor (913-3013-00). C104 is located between V16, pin 9 and a tie point.
2. Change R164 from a 220K-ohm resistor to a 470K-ohm resistor (745-1464-00). R164 is mounted on the tie turret near V16
3. Add R182, 68-ohm resistor (745-1303-00) from the 4-ohm tap of audio output transformer T6 to ground. The 4-ohm tap is a yellow lead from transformer to adjacent tie turret.

#### Parts Required:

Qty	Description	Collins Part Number
1	Capacitor, 0.01-uf +100% -20%, 500 v d-c Fixed Ceramic	913-3013-00
1	Resistor, 470K-ohm <u>+10%</u> , 1/2 watt Fixed Composition	745-1464-00
1	Resistor, 68 ohms, <u>+10%</u> , 1/2 watt Fixed Composition	745-1303-00

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