

INFORMATIONBULLETIN

COLLINS RADIO COMPANY

AMATEUR PRODUCT LINE INFORMATION LETTER #28

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SUBJECT:

Some 32S-1 Transmitters and early KWM-2 Transceivers are beginning to exhibit various forms of instability that fails to respond to usual corrective efforts.

A common cause is C56 in the 32S-1 and C123 in the KWM-2. These are axiallead ceramic feed-through capacitors which are mounted immediately to the right of the 6CL6 driver tube in the PA cage. As they age, they become frequency sensitive.

At one time the typical symptom of a defective capacitor was for the transmitter to operate properly on all bands except for 15 meters, where it would oscillate. More recent reports include almost any set of instability symptoms you might describe.

The conclusion is, of course, that if an older unit comes in for servicing that shows instabilities, this capacitor should be changed before other repair efforts are made. For a number of years a mica feed-through capacitor, 912-5232-000 has been used in the 32S-3 and KWM-2 with complete success. The hole will have to be enlarged to accommodate the new capacitor.

Another problem that is difficult to determine involves instability and eventually oscillation appearing first on the 80 meter band, and then including 40, etc. This is caused by the fact that over a period of time aluminum will become completely covered with oxide. In spite of finger-stock between the shield cans over the rf coils and bandswitch wafers, the cans eventually become floating which allows feedback to occur.

Correction is extremely simple. Merely loosen the hex nuts that lie under the slug rack, shift the position of the shield cans, and retighten the nuts. This regrounds the shields and usually the instability disappears.