



SERVICE BULLETIN

1 October 1971

FROM: Publications Engineering Department, Cedar Rapids, Iowa 52406

KWM-2/KWM-2A TRANSCEIVERS SERVICE BULLETIN NO 3 (REISSUE)

EQUIPMENT: KWM-2 Transceiver (522-1611-000)
KWM-2A Transceiver (522-1792-000)

SUBJECT: Correlation Between Frequencies on Different Bands

This issue completely supersedes the original KWM-2 Service Bulletin No 3, with the same subject, and dated 12 July 1960. The reasons for this reissue are that this new issue offers improved equipment performance over the original, brings the equipment up to the latest production configuration, and includes instructions to cover modification of the KWM-2A (not covered in the original publication).

The correlation between frequencies on different bands of the KWM-2/2A is improved by this modification. This results in less need for pto zero hairline adjustment when switching between bands and also in overall improved equipment performance.

For modification parts, price quotation, and availability dates, contact Collins Radio Company, Service Parts Department, Cedar Rapids, Iowa 52406. All prices are subject to change without notice, and the minimum order charge is \$15.00. Orders must specify the Collins part numbers, quantity of parts required, and must reference KWM-2/2A Service Bulletin No 3.

This modification is recommended for all units, including those having the original service bulletin (no 3) installed. Newer units are modified in production, and it is suggested that a quick inspection of the equipment for the parts and circuit changes of this modification be made to determine whether these changes are included in each unit.

MODIFICATION PROCEDURES

- a. Remove transceiver from cabinet as follows:
 1. Remove all four feet and the screw that is midway between the two rear feet.
 2. Turn the transceiver right side up, lift lid, and remove the two bright-plated screws in the style frame under the lid.
 3. Carefully slide the chassis forward, and set cabinet aside.
- b. Examine unit to determine if this modification is installed. Disregard procedures if it is incorporated.

NOTE: Refer to the KWM-2/2A instruction book for location and identification of XV13 components located in figure 6-2 on page 6-11.



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CAUTION: WHEN PERFORMING ANY OF THE MODIFICATIONS, IF THE TRANSCIEVER IS WIRED WITH POLYVINYL CHLORIDE-INSULATED WIRE, EXERCISE EXTREME CARE SO AS NOT TO DAMAGE THE INSULATION WITH A SOLDERING IRON.

NOTE: The following step (c.) does not apply to the KWM-2A.

- c. Remove and discard 27-pF capacitor C266, if present, from XV13A pin 2 to the center shield of V13 (ground), and install at this location a 12.0-pF capacitor (912-2757-000), KWM-2 only.
- d. Remove and discard 47-k Ω resistor R125 from XV13A pin 2 to vector terminal board E100, and replace with 33-k Ω resistor (745-1415-000).
- e. Remove and discard 47-pF capacitor C74 from XV13A pin 3 to ground, and replace with 43.0-pF capacitor (912-2789-000).
- f. Inspect unit for damage incurred during modification, dress wires and cables, and remove debris.
- g. Reassemble unit by reversing step a.
- h. Check transceiver for proper operation.
- i. Mark information chart (280-3778-010) SB 3R. Apply chart to convenient location on unit if one is not present.

PARTS REQUIRED

The following parts are required to modify one KWM-2 (the KWM-2A requires one less part as noted):

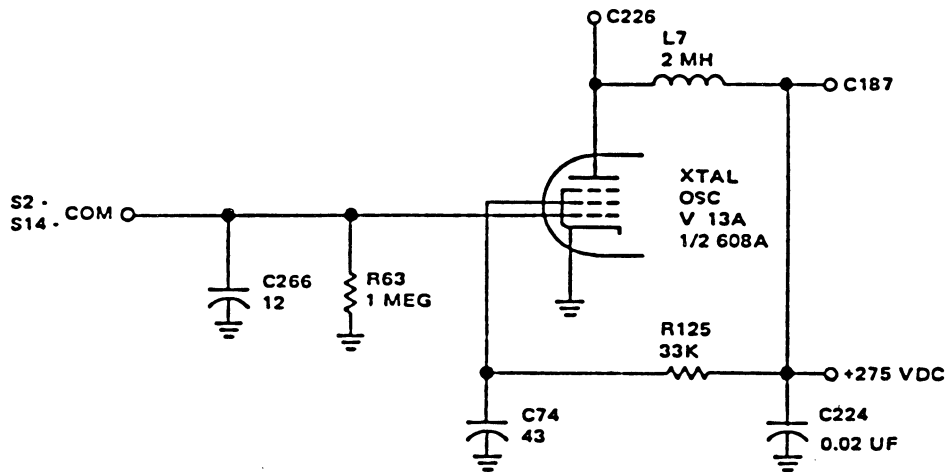
<u>NEW COLLINS PART NUMBER</u>	<u>QTY</u>	<u>DESCRIPTION</u>
280-3778-010	1	Information chart
745-1415-000	1	Resistor, 33 k Ω , 1/2 watt, (R125)
912-2789-000	1	Capacitor, 43.0 pF, (C74)
*912-2757-000	1	Capacitor, 12.0 pF, (C266)

*Not used on KWM-2A.



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NOTE:
C266 NOT USED IN KWM-2A.

KWM-2 After Modification, Schematic Change