

SERVICE INFORMATION LETTER

AMATEUR PRODUCTS S-LINE

KWM-2/2A TRANSCEIVERS (522-1611-000/522-1792-000)
 32S-1/2/3/3A TRANSMITTERS (522-1169-000/522-1488-000/
 522-2955-000/522-2958-000)
 75S-1/2/3/3A/3B/3C RECEIVERS (522-1168-000/522-1489-000/
 522-2562-000/522-2664-000/522-3316-000/
 522-3317-000)

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EXTENDED OPERATING RANGE

The region between 5.0 and 6.5 MHz has always been defined as unsuitable for operation with the S-Line and KWM-2A equipments due to spurious signals inherent in the equipment. Many requirements for operation in that frequency segment have caused a complete study and resulted in the following list of acceptable operations in that range.

<u>DIAL ZERO</u>	<u>ACCEPTABLE OPERATION</u>	<u>HF CRYSTAL MHz</u>	<u>COLLINS CRYSTAL PART NUMBER</u>
5.0 MHz	5.0 - 5.2 MHz	8.155	290-9017-000
5.1 MHz	5.1 - 5.3 MHz	8.255	290-9227-000
5.2 MHz	5.2 - 5.4 MHz	8.355	290-9018-000
5.3 MHz	5.3 - 5.5 MHz	8.455	None
5.4 MHz	5.4 - 5.6 MHz	8.555	290-9019-000
5.5 MHz	5.5 - 5.7 MHz	8.655	None
5.6 MHz	5.6 - 5.770 MHz	8.755	290-9020-000
5.7 MHz	5.7 - 5.830 MHz	8.855	None
5.8 MHz	5.8 - 5.9 MHz	8.955	290-9021-000
5.9 MHz	5.9 - 5.970 MHz	9.055	None
6.0 MHz	6.0 - 6.035 MHz	9.155	290-9022-000
6.0 MHz	6.165 - 6.2 MHz	9.155	290-9022-000
6.1 MHz	6.230 - 6.3 MHz	9.255	None
6.2 MHz	6.3 - 6.4 MHz	9.355	290-9023-000
6.3 MHz	6.370 - 6.5 MHz	9.455	None
6.4 MHz	6.430 - 6.6 MHz	9.555	290-9024-000

Frequency bands of non operation are:

5.970 to 6.0 MHz
 6.035 to 6.165 MHz
 6.2 to 6.230 MHz

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The lowest operating frequency can be extended below 3.4 MHz to at least 3.32 MHz and usually as low as 3.3 MHz.

<u>DIAL ZERO</u>	<u>OPERATING RANGE</u>	<u>HF CRYSTAL MHZ</u>	<u>CRYSTAL PART NUMBER</u>
3.3 MHz	3.3 - 3.5 MHz	6.455	290-9229-000
3.2 MHz	3.3 - 3.4 MHz	6.355	290-9178-000

To order crystals directly from crystal manufacturers: Specify: The hf crystal MHz frequency, and crystal type CR-18/U per MIL-C-3098B except temperature range 0° to +60° inclusive.