

J68331A TRANSMITTER-RECEIVER BAY

1. GENERAL

1.01 The TD-2 Radio System is a repeated microwave (3700 to 4200 mc) radio relay system designed for handling television, multichannel voice or voice frequency telegraph or other wide band (up to 8 mc) communication systems over great distances. The J68331A Transmitter-Receiver Bay is the unit around which the rest of the station equipment is designed and provides the radio repeater equipment for a single one-way channel at a repeater station, or the transmitting and receiving equipment for separate channels at a terminal point. It consists essentially of means for converting the received microwave signal to an intermediate frequency of 70 mc, providing suitable amplification and signal amplitude control, conversion to the transmitting microwave signal frequency and final amplification. The output power is of the order of one-half to

one watt. The dimensions of the bay frame are 9' by 15" by 22-3/8". The maximum power drains are approximately 250 V at 0.4 A, 130 V at 0.4 A, 12 V at 23 A.

1.02 The operation, maintenance, and description and operating principles of the J68331A Transmitter-Receiver Bay are given in detail in the following sections:

OPERATING METHODS	SECTION R90.312
MAINTENANCE ROUTINES	SECTION R90.313
MAINTENANCE METHODS	SECTION R90.314
DESCRIPTION AND OPERATING PRINCIPLES	SECTION R90.315

Since the equipment is designed for unattended operation, a section on OPERATING ROUTINES is not included.

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