DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

ELECTRONIC EQUIPMENT MAINTENANCE KIT MK-288/URM

Headquarters, Department of the Army, Washington 25, D. C.

10 December 1957

1. General. Electronic Equipment Maintenance Kit MK-288/URM (fig. 1) consists of four dummy loads which are used in conjunction with Signal Generators AN/URM-25 through -25D (TM 11-5551 through -D) to match the output

impedance of the signal generator to the input impedance of various radio receivers. The dummy antenna used must have the same electrical characteristics as the actual antenna that is used with the radio receiver. After the impedances

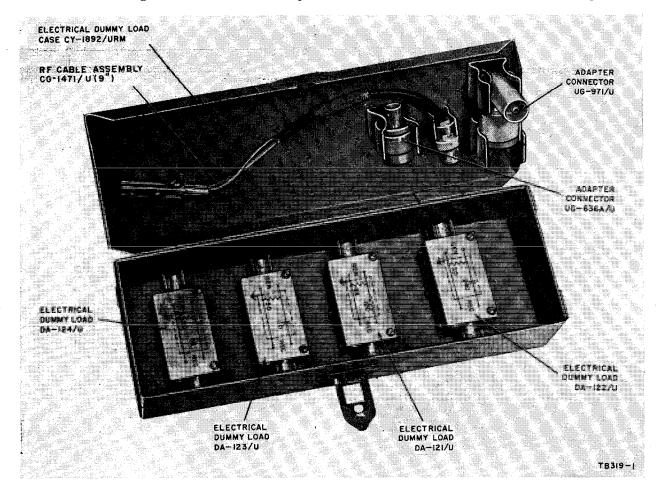


Figure 1. Electronic Equipment Maintenance Kit MK-288/URM, components

have been properly matched, tile singal generator is used to make adjustments, alinement and final testprocedures.

2. Components. Electronic Equipment Maintenance Kit MK-288/URM consists of the following components:

1 each Electrical Dummy Load DA-121/U

1 each Electrical Dummy Load DA-122/U

1 each Electrical Dummy Load DA-123/U

1 each Electrical Dummy Load DA-124/U

each RF Cable Assembly CG-1471/U (9")

1 each Adapter Connector UG-636A/U

1 each Adapter Connector UG-971/U

1 each Electrical Dummy Load Case CY-1892/URM

3. Uses. The dummy loads (fig. 2) are used as impedance-matching substitutes for balanced (rhombic or doublet) or unbalanced (whip or straight wire) antennas in the following radio receivers:

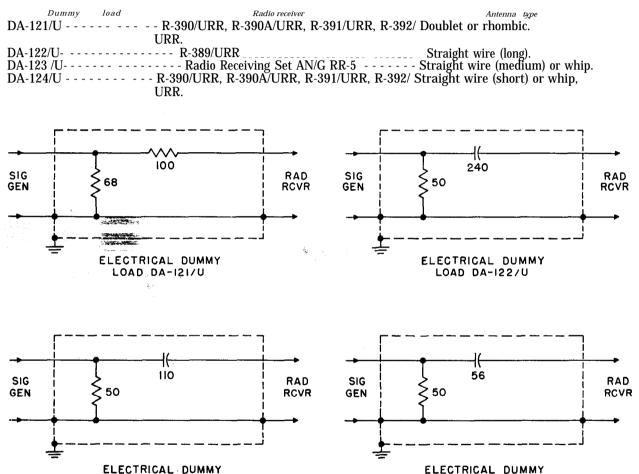


Figure 2. Dummy loads, schematic diagrams.

4. Connections. *a.* The dummy load must be connected between the rf output terminals (50 ohms) of the signal generator and the antenna input terminals of the radio receiver (fig. 3). The output indicator is connected to the output of the receiver for alinement purposes. Two cords CG-409/U are supplied with the signal generator

LOAD DA-123/U

and are used to connect the dummy load between the generator and the receiver. Connect the long cord (3 ft 11 in.) between tile generator and the dummy load input. Connect the short cord between the dummy load output and the receiver antenna input.

LOAD DA-124/U

b. RF Cable Assembly CG-1471/U is used to

TB319-2

connect the dummy load output to radio receivers that have antenna terminals instead of antenna connectors.

c. Adapter Connector UG-971 /U is a twin-to-C type (balanced to unbalanced) connector. This connector unbalances the balanced input, by con-

necting one leg of the receiver input to the shell of the connector (ground), and the other leg of the receiver input to the connector center conductor. Adapter Connector UG-636A/U is a C to BNC adapter which is used with Adapter Connector UG-971 /U when required.

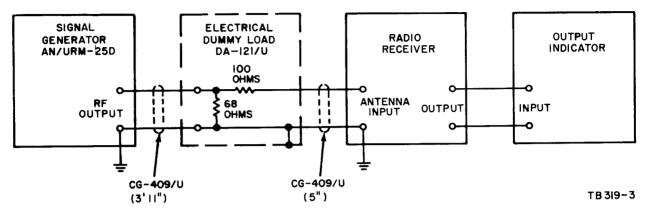


Figure 3. Dummy antenna connected between signal generator and radio receiver

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NG: State AG; units—same as Active Army. USA R: None.

For explanation of abbreviations used, see AR 320-50.

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