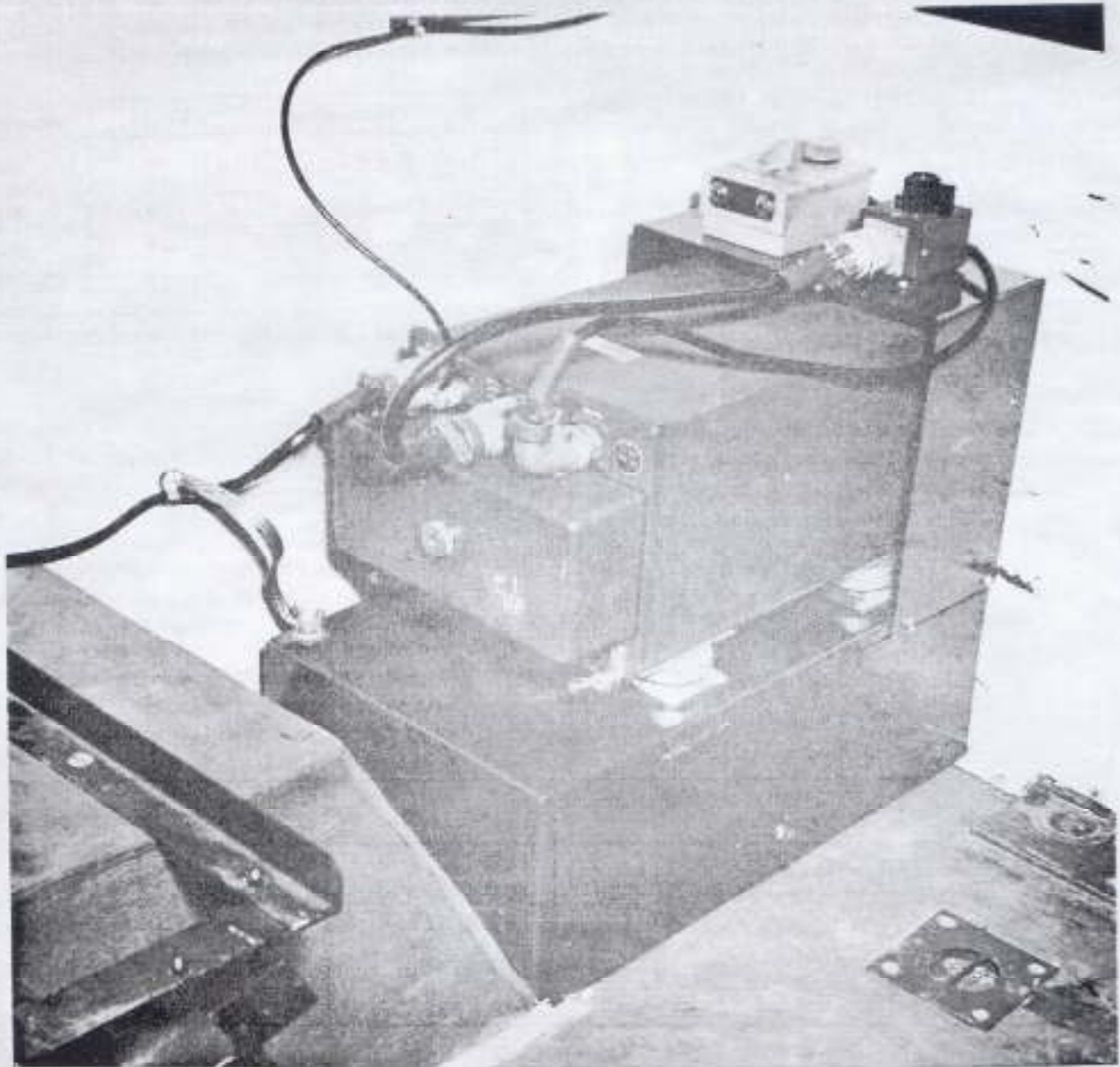


INSTALLATION KIT, ELECTRONIC EQUIPMENT

RADIO SET AF/ICA-67

IN TRUCK UTILITY PANEL 3/4 TON

DATA SUMMARY



General View of Equipment

INTRODUCTION

PURPOSE

The Radio Set AF/ICA-67 In Truck Utility

Panel 3/4 ton, provides ground/air communication to army aircraft.

Issue 1 - 17 Feb 64

RESTRICTED

Page 1

DESCRIPTION

The ICA-67 equipment is used with either one of two combinations of radio sets in the 3/4 ton panel truck, i.e. the C42/C42/R209 or the C42/C52 installations. The truck panel 3/4 ton is modified by first fitting the Adapter Kit, Electronic Equipment, in accordance with Vehicles D 117 Instr 32. Then the C42/C42/R209 or the C42/C52 installation kits are fitted. Finally the Installation Kit, Electronic Equipment, Radio Set AF/ICA-67, Truck Utility Panel 3/4 ton 7610-21-112-4026 (Gen-12) is installed. In both of these installations the Radio Set, AF/ICA-67 is mounted in the same location, and the equipment is operated as a radio station independent of the other radio installations.

The radio installations C42/C42, the R209, and the C42/C52 are described in Electrical L 290-299, L 290/1 - 299/1 and L 280-289.

The equipment is easily dismantled from the vehicle if repairs to the vehicle are necessary.

DATA

PHYSICAL DATA

Listed below are the major items in the installation with approximate overall dimensions and total weights.

Qty Per Eqpt	Designation	Part No.	Overall Dim (in)			
			Height	Width	Depth	Weight
1	Transceiver Unit AF/UTA-68	10EU/22268	8 3/8	9 1/2	17 5/8	27 1/4
1	Remote Control Assy AF/ACR-TO	10EA/22270	4 1/8	2 1/4	2 7/8	1/2
1	Shockmount Assy AF/ADM-69	10EA/22269	Included with transceiver			
1	Jack Box, BC-366		4 1/2	3 1/4	3	1/2
1	Antenna Element 20 1/2 in					
1	Antenna Ground Plane AC 5003/U	10EA/31361				

AUTHORIZED PUBLICATIONS

Battery Care	Elec V660-669	Radio Station C42/C42	Elec L290-299
Generator 300 WPU-5008/U	Elec V130-139	Reception Set R 209	Elec E840-849
Power Supply Metallic CPP-2	Elec K120-129	Radio Set AF/ICA-67	Avn Eqpt H210
Radio Station C42/C52	Elec L280-289	7610-21-112-4026 (Gen-12)	

END

POWER REQUIREMENTS

An ac generator, or if available, ac mains, provides charging facilities through the CPP-2 for the BB-46 batteries, which in turn supply power to the AF/ICA-67. The equipment operates from input voltages of 24.0 to 29.5 volts. The negative side of the supply is grounded to the transceiver chassis. Voltage and current requirements for typical operating conditions are listed below.

Operation	Volts	Amperes
Reception	24	5.6
	26	5.8
	29.5	6.1
Transmit 80% mod	24	7.5
	26	7.9
	29.5	8.5

Voltage and Current Requirements

RANGE

Line-of-sight ranges can be expected with this VHF equipment, i.e. height at 10,000 ft, air-to-ground range approximately 100 miles.

NOTE

With lower heights, ranges will be reduced. Under certain atmospheric conditions signals may be received at distances farther than line-of-sight or, on the other hand, under adverse conditions ranges may be considerably reduced.