

MECHANICAL  
IONS (AUST)

ELECTRICAL AND MECHANICAL  
ENGINEERING INSTRUCTIONS (AUST)

VEHICLE  
G 050-27

A009-1 DECS1

TRUCK, UTILITY, 3/4 TON, GS, FFR,  
LANDROVER SERIES 2, 109 IN WB

FITTED WITH RADIO SET AN/PRC47-C42

DATA SUMMARY

1. The installation is designed for use in the HF range (Radio Set AN/PRC47), and VHF range (C42) by R Aust Sigs units. The station can be operated whether the vehicle is moving or stationary. Provision exists for dismantling the Radio Set for use in a ground or manpack role, and dismantling the C42 in a separate ground role. A 1/2 ton trailer is used for the carriage of charging set, aerial, and cable laying gear, pack frames and other stowed items. A max crew of three will be carried.

2. The station consists of two separate installations. The C42 only is controlled by Type B control harness, whilst the Radio Set AN/PRC47 is operated separately with its own ancillary equipment. The radio equipment and control harness are mounted on a movable wooden table fitted across the cargo compartment. A 'C' control unit, fitted on the dashbord, can be used with the C42 only. Four 12 V 75 Ahr batteries, connected in two banks of 24 V, are located below the table and can be charged by the vehicle power take-off generator. Four spare batteries, an AN/PRC47 battery, and a charging set are carried in the trailer. The C42 vehicle rod aerial is mounted on the off side front wing and that of the Radio Set AN/PRC47 on the near side of the body.

31 Aug 64

Issue 1, 31 Aug 64

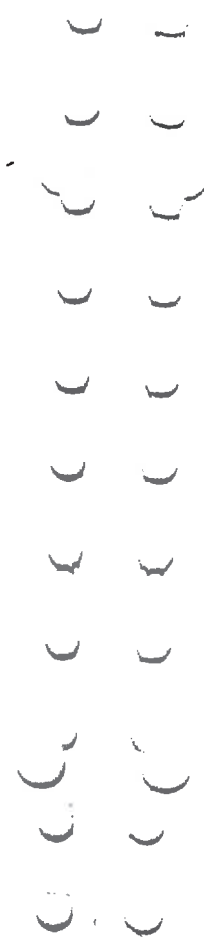
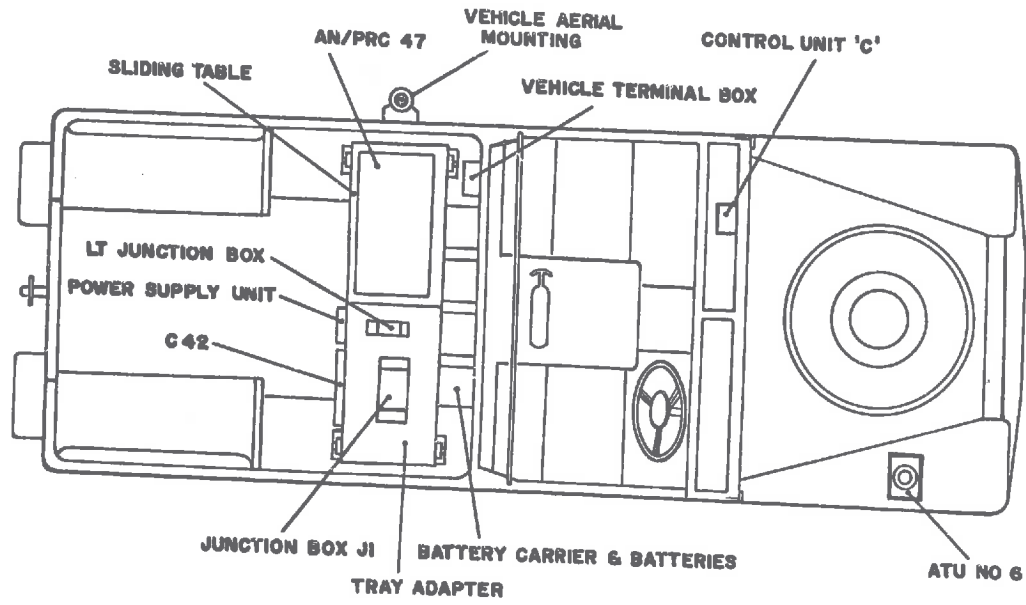
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3. Send-receive facilities are available from either of the two installations from any position in the vehicle. Remote operation of C42 is provided by means of a remote hand telephone and D10 cable. The Radio Set AN/PRC47 installation may only be keyed from the rear of the vehicle. Provision is made for the emergency operation of the C42 installation in the event of failure of the control harness by the provision of an 'O' unit. The aerial of the C42 with its ATU can be moved to a point remote from the set.

4. Physical Data:

Weights: Complete installation including four batteries, but excluding items carried in the trailer (approx) 800 lb  
Batteries, each 88 lb

5. Frequency, Modulation Method and Range:

	Frequency	Modulation Method	Range (in Miles)
C42:	36 to 60 Mc/s (241 channels at 100 kc/s)	F3(FM)	Using standard rod aerials LP 3 to 4 HP 10 to 15
AN/PRC47:	2 to 11.999 Mc/s (10,000 channels at 1 kc/s intervals)	A1(CW) A3a(DSB-AM)	Voice 45, CW 100 +

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6. Power Requirement and Consumption:

C42:	24 V dc	8.0 A (HP), 5.5A (LP)
AN/PRC47:	26.5 V dc (silver/zinc battery) manpack role	
	or	
	24 V dc	13.3 A
	or	
	115 V ac, 400 c/s, single ph	320 W

7. Relevant Publications:

C42:	EMEI TELS H 440 to H 449
AN/PRC47:	EMEI TELS H 400 to H 409
Control Harness Type B:	EMEI TELS L 780 to L 789
Vehicle Modification:	EMEI VEH G 057-1
Radio Installation Kit:	CES (Aust) 1860

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