

70071 JUN 77

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

VEHICLE
G 050-25

TRUCK, UTILITY, 3/4 TON, GS, FFR (LANDROVER)
FITTED WITH RADIO SET C13

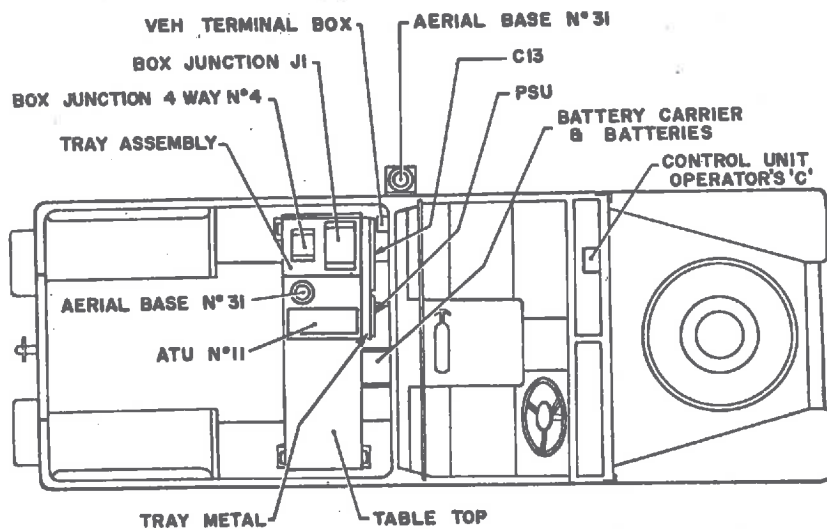
DATA SUMMARY

1. The installation is designed for use in the HF band by RAAC units. It can be used while the vehicle is stationary or on the move, or as a ground station. A half ton trailer may be used for the carriage of the charging set, aerial and cable laying gear, and other stowed items. A max crew of two will be carried.
2. The installation consists of a Radio Set C13 and power supply unit, linked by items of Type 'B' control harness. The radio equipment and control harness are mounted on a movable wooden table fitted across the vehicle at the rear of the front seats. A control unit type 'C' is mounted on the dash forward of the passenger's seat. Four 12 V 75 Ah batteries are placed below the table. The batteries are on charge while the vehicle engine is running. A 300 W charging set is provided for charging batteries when the installation is operating in the ground role. Rod aeriels are provided for normal operation. The radio set may be operated with a remote aerial, and a special aerial base and coupling unit is provided for this purpose.
3. Send-receive facilities are available at two front seat positions and the operator's position at rear of the vehicle. Intercommunication between headsets in the vehicle is available if required. Remote control is limited to that provided by a length of D10 cable and a remote control hand telephone. Provision is made for emergency operation of the radio set in the event of failure of the harness. It is possible to dismount the installation for use on the ground.

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4. Physical Data:-

Weights:-

Complete installed
items

Batteries, Storage
75 Ah (4) each

5. Frequency, Modulation

Frequency (in Mc/s)
1.5 to 12.0

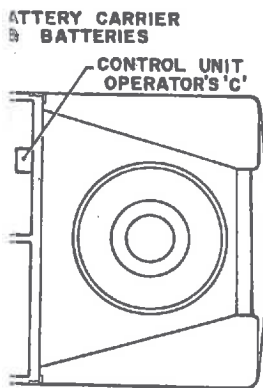
* Ground wave

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4. Physical Data:-

Weights:-

Complete installation including batteries and stowed items (approx)	650 lb
Batteries, Storage Lead Acid Type, 12 V, 19 Plate, 75 Ah (4) each	88 lb

5. Frequency, Modulation Method and Range:-

Frequency (in Mc/s)	Modulation Method	* Range (in miles)	
		High Power	Low Power
1.5 to 12.0	VOICE (AM)	50	30
	VOICE (PM)	25	15
		(approx 30% greater than AM)	

* Ground wave ranges in daylight using a 12 ft rod aerial.

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RESTRICTED

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6. Power Requirements:-

HP transmit	24 V dc	5.3 A (approx)
LP transmit	24 V dc	3.8 A "
Receive	24 V dc	3.2 A "
Standby	24 V dc	1.9 A "

7. Relevant Publications:-

Vehicle Modification	EMEI VEH G 055-1
Radio Set G13	EMEI TELS H 160 to H 169
Control Harness Type B	EMEI TELS L 780 to L 789
G13 in Landrover FFR	CES(AUST) 3350

E N D

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