

A008-1 JUN 77

ELECTRICAL AND MECHANICAL  
ENGINEERING INSTRUCTIONS (AUST)

VEHICLE  
G 050-26

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

FITTED WITH RADIO SET C45/C11-R210

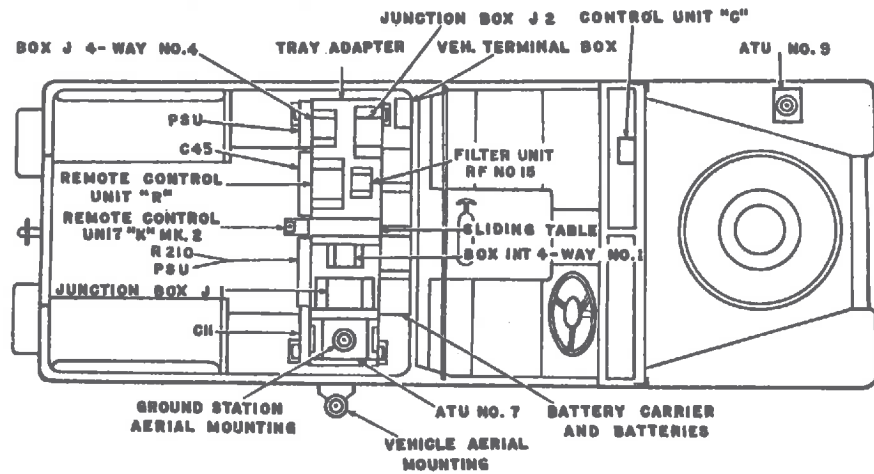
DATA SUMMARY

1. The installation is designed for use in the HF range (Sender C11 and Receiver R210), and in the VHF range (C45), by RAA units. The station can be operated whether the vehicle is moving or stationary. Provision has been made for dismounting the C45 and C11-R210 for operation as separate ground stations. A 1/2 ton trailer is used for the carriage of the charging set, aerial and cable laying gear, and other stowed items. A max crew of three will be carried.

2. The station consists of two separate installations; a C45 set and a C11 sender with Receiver R210, controlled by type B control harness units, all mounted on a movable wooden table fitted across the cargo compartment. Four 12 V 75 Ah batteries, in two banks of 24 V, are located below the table. The batteries are on charge while the vehicle engine is running, via Panel power distribution No 8. A 300 W charging set is provided for charging batteries in the ground role. A 'C' control unit is mounted in the front compartment under the dash. The C45 aerial tuning unit assembly is mounted on the left hand front wing and the C11-R210 aerial base mounting fitted on the right side of the cargo compartment. An elevated aerial 23 to 38 Mc/s and telescopic mast for the C45, and a 34 ft vertical aerial for the C11-R210 are provided for use when extra range is required.

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5. Power Requ

C45  
C11  
R210

3. Send receive facilities are available from either installation from any position in the vehicle. Remote operation of C45 is provided by means of a remote control telephone hand and D10 cable. The C11-R210 installation provides keying facilities in the vehicle or at a remote point. Provision is made for emergency operation of either installation in the event of failure of the control harness. The aerial of each installation, with its ATU, can be moved to a point remote from the set.

4. *Physical Data:*

Weights: Complete installation including four batteries, but (approx) 850 lb  
excluding items carried in trailer  
Batteries, each 88 lb

5. *Power Requirement and Consumption:*

C45	: 24 V dc	8.0 A (HP), 5.5 A (LP)
C11	: 24 V dc	20.0 A on send (HP)
R210	: 24 V dc	2.0 A on receive

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6. Frequency, Modulation Method, and Range

	Frequency in Mc/s	Modulation Method	Range (in miles)
C45	23 to 38 Mc/s (151 channels at 100 kc/s interval)	FM	LP 3 to 4 * HP 10 to 15 *
C11	2 to 16 Mc/s (in 3 ranges)	A1 (CW) A3 (AM) F1 (FSK using external unit)	HP (Voice) 25 * CW 50 * LP approx 1/2 HP range *
R210	2 to 16 Mc/s (7 bands)	A1 (CW) A3 (AM) F1 (FSK using external unit)	As for C11

\* Using standard rod aerials.

7. Relevant Information:

C45 EMEI TELS H 510 to H 519  
C11 EMEI TELS D 120 to D 129  
R210 EMEI TELS E 280 to E 289  
Control Harness Type B EMEI TELS L 780 to L 789  
Vehicle Modification EMEI VEH G 057-1  
Radio Installation CES (Aust) 3463

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Issue 1, 31 Jan 63

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