

17004 JUN 77 UEH
G 050-16

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

COMMUNICATIONS INSTALLATIONS
M-430

AND MECHANICAL
INSTRUCTIONS (AUST)

In miles)

C11

WIRELESS STATION C11/R210 IN

TRUCK, UTILITY, 3/4 TON, GS, FFW LAND ROVER SERIES 2, 109 IN WB DATA SUMMARY

1. The installation is designed for use in the HF band by R Aust Sigs, RAAC and R Aust Inf. It can be used while the vehicle is stationary or on the move, or as a ground station. A max crew of four will be carried.
2. The station consists of Wireless Sender C11 with power supply unit, and Reception Set R210 controlled by means of Type B wireless control harness. These are mounted on a movable wooden table fitted across the rear compartment of the vehicle. A Control unit 'C' is mounted on the vehicle dashboard. Two aerial mountings are used, one for the vehicle installation, and one for the dismantled installation. A common aerial tuning unit (ATU No 7) is used. Four 12 V 75 Ah batteries are located below the table. These batteries are on charge while the engine is running. For mobile use a 12 ft rod aerial, made up from Antennae rods 'F' sections, is used. This can be extended to 16 ft for ground use. A keying unit is provided in the Remote control unit 'K'.
3. Send-receive facilities are available from two positions in the vehicle, one in the driving compartment opposite the passenger's seat, and one in the rear compart-

REELS E 280 to 289
REELS L 780 to 789

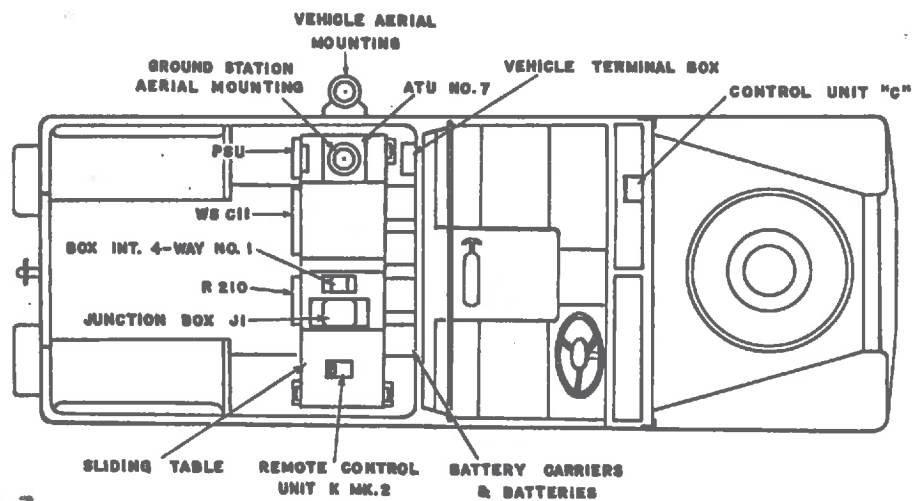
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ment. Keying point. Remote cable supplied. the event of failure for use on

4. Physical Data
Weights:

Frequency	
WS C11	
2 to 16 (in)	
Cont frequen	
Range 1	2 t
2	4 t
3	8 t

ment. Keying facilities are available for operation within the vehicle or at a remote point. Remote operation is possible, but is limited by the length of D10 twisted cable supplied. Provision is made for emergency operation of the wireless station in the event of failure of the control harness. It is possible to dismount the installation for use on the ground.

4. Physical Data:

Weights: Complete installation, including batteries - approx 620 lb
Batteries - each 88 lb

FREQUENCY, MODULATION METHOD, AND RANGE

Frequency (in Mc/s)	Modulation Method	Range (in miles)
WS C11		(average terrain)
2 to 16 (in 3 ranges)	A1 (CW)	HP (Voice) 25
Cont frequency -	A3 (AM)	(CW) 50
Range 1 2 to 4		LP approx 1/2 HP range
2 4 to 8		
3 8 to 16		

COMMUNICATIONS INSTALLATIONS
M 430

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

Frequency (in Mc/a)	Modulation Method	Range (in miles)
R210 2 to 16 (7 bands)	A1 (CW) A3 (AM)	As for WS C11
Band 1 2.0 to 3.0		
2 3.0 to 4.5		
3 4.5 to 6.8		
4 6.8 to 9.1		
5 9.1 to 11.4		
6 11.4 to 13.7		
7 13.7 to 16.0		

5. Power Supply and Consumption:

WS C11: 24 V dc 20 A on 'send' (high power)
R210 : 24 V dc 2 A on 'receive'

6. EMEI References:

Vehicle Modification VEH G 027-1 Reception Set R210 TELS E 280 to 289
Wireless Sender C11 TELS D 120 to 129 Harness Type B TELS L 780 to 789

E N D