A004-1 FUNN VEH
G050-15

ELECTRICAL AND MECHANICAL ENGINEERING INSTRUCTIONS (AUST) [redacted] ~~COMMUNICATIONS INSTALLATIONS~~ ~~M 420~~

WIRELESS STATION C45
IN
TRUCK, UTILITY, 3/4 TON, GS, FFW
LAND ROVER SERIES 2, 109 IN WB

DATA SUMMARY

1. The installation, designed for use in the VHF band by RAA and R Aust Sigs units, can be used while the vehicle is stationary or on the move, or as a ground station. A 1/2 ton trailer is used to carry the charging set, aerial and cable laying gear, and other stowed items. A max crew of four will be carried.

2. The station consists of WS C45 with power supply unit controlled by means of Type B wireless control harness. The wireless equipment and control harness are mounted on a moveable wooden table fitted across the rear compartment of the vehicle. A control unit type 'C' is mounted on the vehicle dashboard. Four 12 volt 75 Ahr batteries are placed below the table. These batteries are on charge while the engine is running. A 300 W charging set is provided for charging batteries when the station is operating in the ground role. Rod aerials are provided for normal operation, and a 27 ft telescopic mast and aerial elevated 23 to 38 Mc/s may be used in static locations where extra range is required.

3. Send-receive facilities are available from any position in the vehicle. Remote control is limited to that available with a length of D10 cable and a remote control

hand telephone. Provision is made for emergency operation of the wireless set in the event of failure of the harness. It is possible to dismount the installation for use on the ground.

PHYSICAL DATA

4. *Weights:* Complete installation, including charging set and batteries — 686 lb

Batteries each — 88 lb

5. *FREQUENCY, MODULATION METHOD AND RANGE*

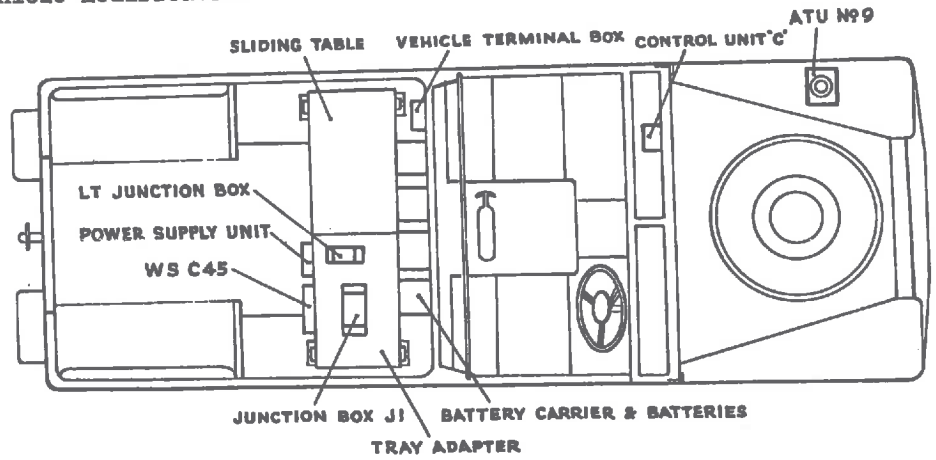
Frequency (in Mc/s)	*Modulation Method*	*Range (in miles)*
23 to 38 (151 channels at 100 kc/s intervals)	FM	LP 3 to 4 HP 10 to 15 (with 8 ft rod aerials)

6. *Power requirements:*

24 V dc — 8.0 A (HP)
5.5 A (LP)

7. *Reference EMEIs:*

WS C45 — TELS H 510 - H 519
Control Harness Type B — TELS L 780 - L 789
Vehicle Modification — VEH G 027-1



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