

7004 JMT VEH
G050-14

ELECTRICAL AND MECHANICAL
INSTRUCTIONS (AUST)

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

COMMUNICATIONS INSTALLATIONS
M-390

SPECIAL TUNING
UNIT NO 10



TUNING
109

LAND ROVER, SERIES 2,

WIRELESS STATION C45/B48
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 VHF band by RAA or R Aust Sigs units. It can be used while the vehicle is on the move or stationary, or as a ground station. A 1/2 ton trailer is used for the carriage of the charging set, aerial, cable laying gear, and other stowed items.
2. The station consists of WS C45 with power supply unit and a WS B48, linked by items of Type B wireless control harness. The wireless equipment and control harness are mounted on a movable wooden table fitted in the rear compartment. A control unit type 'C' is mounted on the vehicle dashboard. Four 12 volt 75 Ah batteries are placed below the table. These batteries are on charge while the vehicle 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 23/38 Mc/s may be used with WS C45 in static locations where extra range is required.

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3. Send-receive facilities are available on either of the two wireless sets from two positions in the vehicle (NS front and OS rear). Rebroadcasting between the two wireless sets is possible. A measure of remote control is provided by a remote control hand telephone and a length of D10 cable. Provision is made for emergency operation of the wireless sets in the event of failure of the harness. It is possible to operate the dual station in a ground role.

6. Power requirement

- (a) WS C45:
- (b) WS B48:

PHYSICAL DATA

4. **Weights:** Complete installation, including charging set and batteries 745 lb
- Batteries, each 88 lb

7. EMEI references:
Vehicle modification
Wireless Set

TECHNICAL INFORMATION

5. FREQUENCY, MODULATION METHOD AND RANGE

WS	Frequency (in Mc/s)	Modulation Method	Range (in miles)
C45	23 - 38 (154 channels at 100 kc/s intervals)	FM	LP 3 to 4 HP 10 to 15 (with 8 ft rod aerial)
B48	26 - 38 (121 channels at 100 kc/s intervals)	FM	LP 2 HP 5 (with 8 ft rod aerial)

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6. Power requirement

(a)	WS G45:	24 V dc	HP 8A	LP 5.5A
(b)	WS B48:	24 V dc	3A	

7. EMEI references:

Vehicle modification	-	VEH G 027-1	Wireless Set G45	-	TELS H 510-519
Wireless Set B48	-	TELS G 550-559	Harness Type B	-	TELS L 780-789

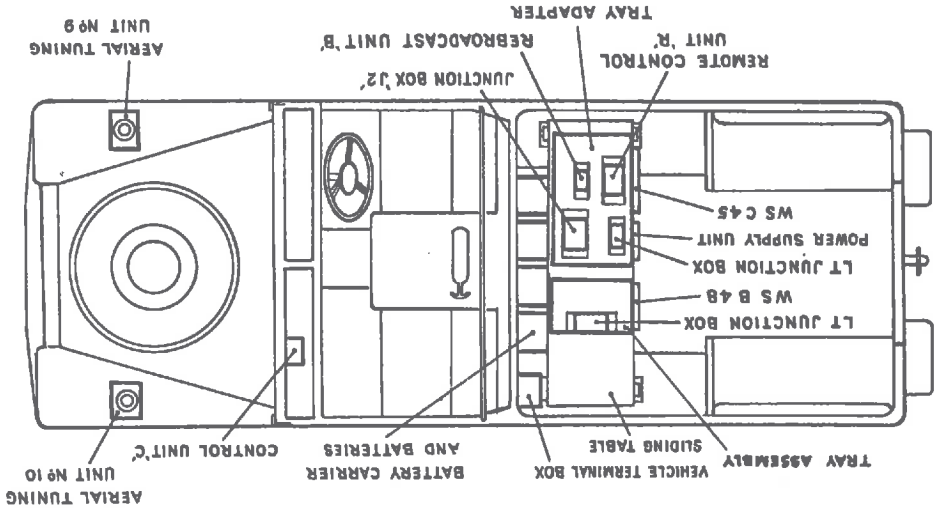


FIG 1 - WIRELESS STATION C15/B18 IN TRUCK UTILITY 3/4 TON, GS, LANDROVER, SERIES 2,
109 IN WB

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