

A009-1 DEC 81

VEH
6050-13

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

COMMUNICATIONS INSTALLATIONS
M-380

WIRELESS STATION C42/B47
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 an Armd Regt, can be used while the vehicle is on the move or stationary, and is entirely self contained.
2. The station consists of a WS C42 and a WS B47 linked by items of Type B control harness. The wireless equipment and control harness are mounted on a sliding wooden table fitted in the rear compartment. Four 12 V 75 Ahr batteries are placed below the table. These batteries are on charge while the engine is running. The rod aerials are for normal operation, and a 27 ft telescopic mast and elevated aerial may be used with WS C42 in static locations to increase range.
3. Send-receive facilities are available on either of the two wireless sets at two positions in the vehicle. Intercommunication between headsets in the vehicle is available if required. Reception on one set can be transmitted automatically by the other set. A measure of remote control is provided by a remote control hand telephone and a length of D10 cable.

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PHYSICAL DATA

4. *Weights:* Complete installation including batteries 630 lb
Batteries, secondary, portable, 12 V 75 Ahr, each 88 lb

7. *Reference EMI*

WS C42
WS B47

5. *FREQUENCY, MODULATION METHOD AND RANGE*

WS	Frequency (in Mc/s)	Modulation Method	Range (in miles)
C42	36 to 60 (241 channels at 100 kc/s intervals)	FM	LP 3 to 4 HP 10 to 15 using 8 ft rod aerial
B47	38 to 56 (181 operating channels at 100 kc/s intervals)	FM	LP 1 1/4 HP 5 using 8 ft rod aerial

6. *Power requirement*

WS C42: 24 V dc 8.0 A (HP)
5.5 A (LP)
WS B47: 24 V dc 3.0 A (HP and LP)

MECHANICAL
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630 lb

88 lb

aerial

aerial

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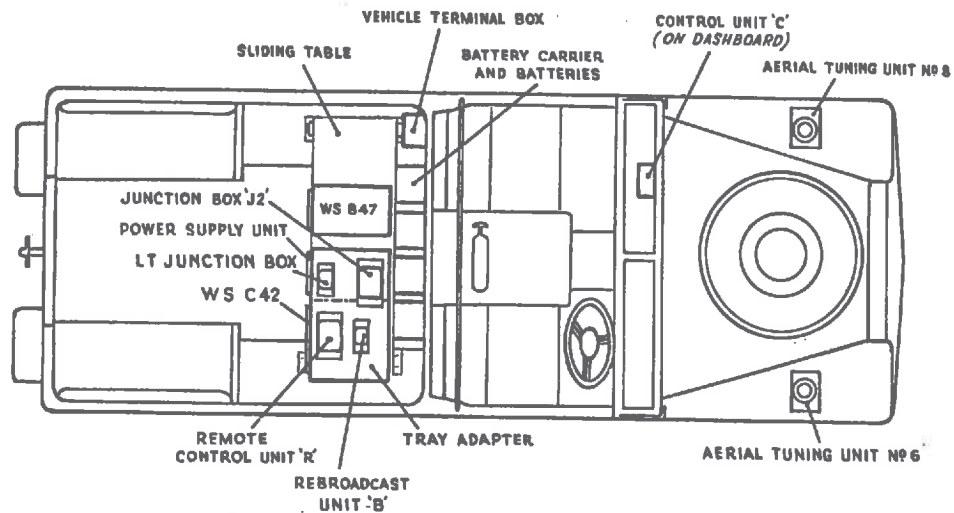
7. Reference EMEIs:

WS C42
WS B47

TELS H 440 to H 449
TELS G 530 to G 539

Wireless Harness Type B
Vehicle Modification

TELS L 780
to L 789
VEH G 027-1



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