

A0094 JUN 77

JEH
G 050 - 23

MECHANICAL
IONS (AUST)

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

~~COMMUNICATIONS INSTALLATIONS~~
M 520

WIRELESS STATION C45/B48/C45 IN
TRUCK, UTILITY, 3/4 TON, GS, FFW
LAND ROVER SERIES 2, 109 IN WB

DATA SUMMARY

1. The C45/B48/C45 installation is designed for use in the VHF band by RAA. The station can be operated while the vehicle is moving or stationary. Provision has been made for dual WS C45/B48 and/or single WS C45 ground station operation. 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 four will be carried.
2. The vehicle installation consists of a dual installation (WS C45/B48) and a single installation (WS C45), with associated power supply units, linked by items of B type control harness. The wireless equipment and the control harness are mounted on a movable wooden table fitted across the rear compartment of the vehicle. The WS B48 is fitted on the tray above the off-side WS C45. A 'C' control unit is fitted on the dashboard. Four 12 V 75 Ah batteries, which are on charge while the engine is running, are placed below the table. A charging set is provided for charging batteries when the stations are operated in the ground role. Rod aeriels are provided for normal operation, and a 27 ft telescopic mast and aeriels elevated 23 to 38 Mc/s may be used in static locations where extra range is required.
3. (a) *Dual Installation (WS C45/B48)*. Send-receive facilities are available at the left near side and at the rear off-side positions in the vehicle. Rebroadcasting and a measure of remote control is provided by remote control handset and length of D10 twisted cable.

Issue 1, 31 Jul 61

DISTRIBUTION - CLASS 155 - CODE NO 3

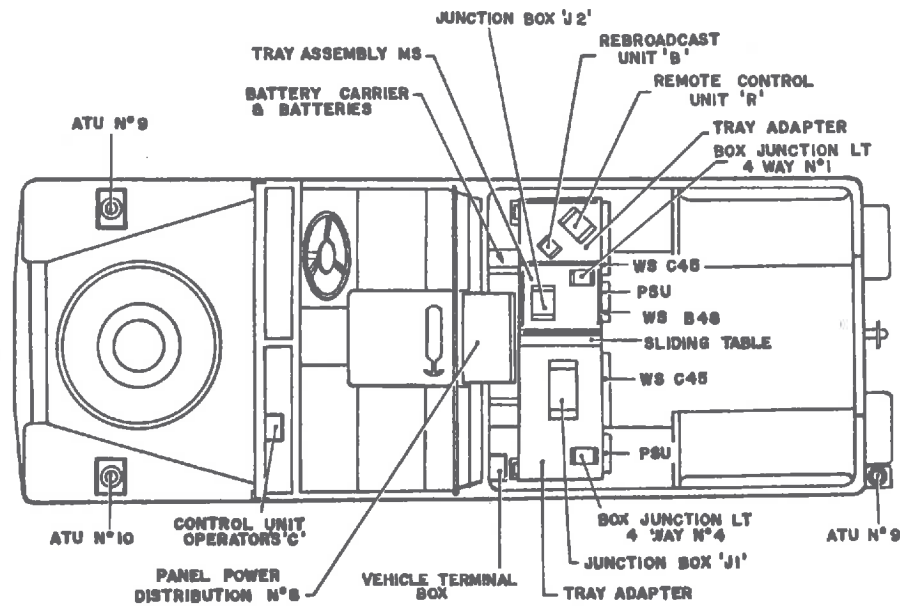
Page 1

68-2 3

1, 31 Jul 61

COMMUNICATIONS INSTALLATIONS
M 520

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)



ELE
ENG

4.
of
5.

6.

Iss

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

COMMUNICATIONS INSTALLATIONS
M 520

(b) *Single Installation (WS 045)*. Send-receive facilities are available at the off-side rear and (by using Microphone Receiver Headgear) at the near side front positions in the vehicle. A measure of remote control is provided by a remote control handset and a length of D10 twisted cable.

4. Provision is made for emergency operation of all the wireless sets in the event of failure of the control harness.

5. *Physical Data:*

Weight : Complete installation including batteries and items stowed in vehicle, but excluding items carried in the trailer 810 lb (approx)

Batteries, each 88 lb

6. *Frequency, Modulation Method and Range:*

WS	Frequency (in Mc/s)	Modulation Method	Range (in Miles)
G45	23 to 38 (151 channels at 100 kc/s intervals)	FM	LP 3 to 4 HP 10 to 15 (with 8 ft rod aerial)
B48	26 to 38 (121 channels at 100 kc/s intervals)	FM	LP 2 HP 5 (with 8 ft rod aerial)

COMMUNICATIONS INSTALLATIONS
M 520

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

ELECT
ENGIN

7. Power Requirement and Consumption

WS C45	24 V dc	8.0 A (HP)
		5.5 A (LP)
WS B48	24 V dc	3.0 A (HP and LP)

8. Relevant Publications:

WS C 45	EMEI TELS	H 510 to H 519
WS B48	EMEI TELS	G 550 to G 559
SUV No 12	EMEI TELS	K 150 to K 159
Control Harness Type B	EMEI TELS	L 780 to L 789
Vehicle Modification	EMEI VEH	G 027-1
Radio Station C45/B48/C45 in Landrover FFW	CES (Aust)	3246

E N D

1. stati
made
trail
other

2. singl
type
movab
fitte
dashb
are p
stati
tion,
stati

3. (a

Issue