

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

Range (in miles)

HP 3 to 4
HP 10 to 15
(with 8 ft rod)

A009-1 DEC 81

VEH G050-17
~~COMMUNICATIONS INSTALLATIONS~~
M 440

ELECTRICAL AND MECHANICAL
ENGINEERING INSTRUCTIONS (AUST)

WIRELESS STATION C42/C42
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 RAE, R Aust Sigs and RAAC units. The station can be operated whether the vehicle is moving or stationary. Provision has been made for it to be operated as a dual or single installation when used in a ground role. 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 station consists of a dual WS C42 installation with associated power supply units, and is controlled by means of items of Type B wireless control harness. The wireless equipment and control harness are mounted on a movable wooden table fitted across the rear compartment of the vehicle. A control unit type 'C' is mounted on the dashboard. Four 12 V 75 Ahr batteries, which may be charged while the engine is running, are placed below the table. A 300 W charging set is provided for charging the 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 30 to 60 Mc/s may be used in static locations where extra range is required.

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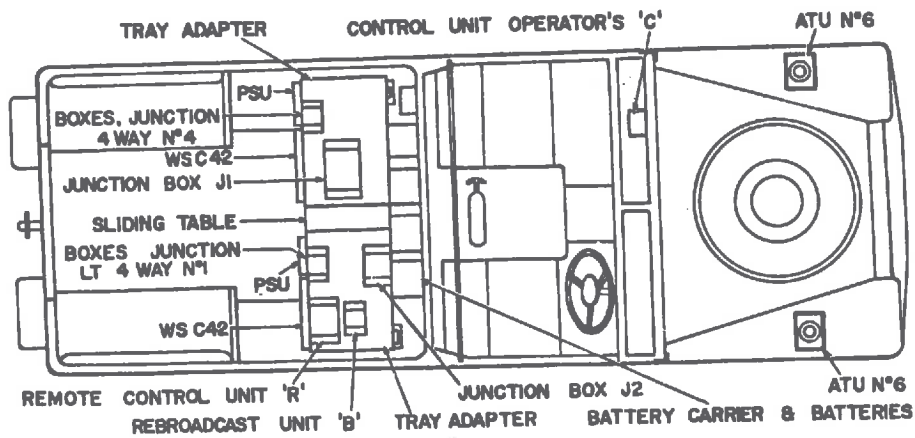


FIG 1 - WIRELESS STATION C42/C42 IN TRUCK, UTILITY, 3/4 TON, GS, FFW, LAND ROVER
SERIES 2, 109 IN WB

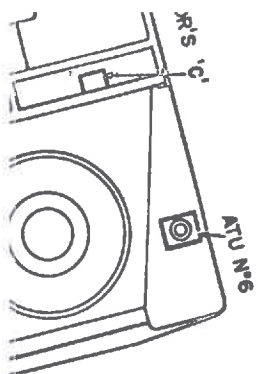
ELECTRICAL
ENGINEERING

3. Sent
Position in
ure of remot
length of D1
station or a
the wireless

PHYSICAL DATA

4. Weights:

Compleat
exclud
Batter



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3. Send-receive facilities are available from either of the two sets from any position in the vehicle. Rebroadcasting between the two sets is possible, and a measure of remote control is provided by a remote control hand telephone and 220 yds length of D10 twisted cable. The installation can be dismantled as a dual ground station or a single set ground station. Provision is made for emergency operation of the wireless equipment in the event of failure of the harness.

PHYSICAL DATA

4. Weights:

Complete installation including charging set and batteries, but excluding items carried in trailer	(approx). 730 lb
Batteries, each	88 lb

