

As approved by the Rover Co.
Ltd. for use with the

C12 MOBILE RADIO SET



This high frequency communications equipment is equally suitable for fixed or mobile operation, and may easily be installed in any vehicle. Widely used by police and the British Army under arduous conditions, the C12 is fully approved by the Ministry of Supply.

Designed for a wide variety of fixed or mobile military applications, it is particularly suitable for police and special users in undeveloped areas where h.f. operation is permitted.

The C12 Mobile Radio Set can be used for speech or c.w. telegraphy, and is continuously tunable over the frequency range 1.6-10.0 Mc/s in two bands of 1.6-4.0 Mc/s and 4.0-10.0 Mc/s. Duplicate-tuned circuits with separate controls permit the pre-tuning of two frequency channels within these bands. A frequency selector is provided so that the operator may instantly switch to these channels. A frequency reconstituting circuit automatically nets the transmitter

frequency to that of the receiver.

In daylight, under average conditions, the range between mobile stations is 30 miles for radiotelephony and 50 miles for c.w. The average ranges for fixed stations using 32 ft. whip aerials are 50 miles R/T and 75 miles c.w. With a horizontal end-fed aerial, point-to-point communication can be established over ranges of 500 miles or more, depending on propagation conditions.

A power supply unit can be supplied for use either on 12 or 24 volts. The set is sealed, is dust- and splash-proof, and will not be damaged by immersion in water for short periods. Suitable for use in any part of the world, the C12 Mobile Radio Set meets the standards of climatic durability laid down in the British Inter-Service Specification K114. Provision is made for crystal control which can be switched in as an alternative to the master oscillator.



TELECOMMUNICATIONS LIMITED

C12 H.F. MOBILE EQUIPMENT

Specifications and Details



GENERAL SPECIFICATION

Frequency Range

In two bands:— 1.6–4.0 Mc/s and 4.0–10.0 Mc/s

Consumption (approx.) for 12V d.c. input

Receive only: 5.4A.

Transmit: 17.5A on R/T, 15A on C.W.

Headgear

Combined moving coil microphone and headphones.

Vehicle Installations

Installation kits are available for any type of vehicle.

Aerials

30-ft. whip.

Cable Forms

The installation kit includes all cable forms necessary for this installation.

RECEIVER

Sensitivity

Better than $1\mu\text{V}$ for 50mW a.f. output.

Signal-to-Noise Ratio

Better than 10dB for $1\mu\text{V}$ at the aerial terminal.

Adjacent Channel Selectivity

6kc/s overall for 64dB down, better than 30kc/s overall for 60dB down.

TRANSMITTER

R.F. Power Output

3 to 5 watts on R/T, 5 to 7 watts on C.W. (Measured in 60pF + 10Ω dummy aerial.)

Transmitter Frequency Accuracy

Within 1kc/s of incoming signal when adjusted to zero beat on Receive.

Harmonic Radiation

Rendered negligible in v.h.f. bands by incorporated filters.

Power Supply Unit

12V. (This can be interchanged with a 24V unit if required.)

SHIPPING DETAILS

Transceiver Unit

Height	Width	Depth	Max. Weight
8 $\frac{1}{4}$ " (21.0 cm)	17 $\frac{1}{2}$ " (44.5 cm)	12 $\frac{3}{8}$ " (31.4 cm)	36 lb (16.33 kg)

Power Supply Unit

8 $\frac{3}{8}$ " (21.3 cm)	6 $\frac{1}{8}$ " (15.6 cm)	11 $\frac{1}{2}$ " (29.2 cm)	20 lb (9.00 kg)
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Aerial Tuning Unit

5 $\frac{1}{4}$ " (13.3 cm)	8 $\frac{1}{4}$ " (21.0 cm)	13" (33.0 cm)	10 lb (4.50 kg)
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LAND ROVER EXTRAS REQUIRED: Heavy Duty Battery Charging Equipment

Full details on application to

**THE ROVER COMPANY LTD., TECHNICAL SALES DEPARTMENT,
LODE LANE, SOLIHULL, WARCS.**