RADIO TELEGRAPH ADAPTOR, NO 1 AND NO 2

TECHNICAL HANDBOOK - DATA SUMMARY

NOMENCLATURE
Radio telegraph adaptor, No 1 - (type L/607/00) Z1/5520-90-106-1262
Radio telegraph adaptor, No 2 - (type L/607/01) Z1/5520-99-106-1263

ROLE
Used by Royal Signals to provide radio/teleprinter facilities, in conjunction with the Teleprinter T100R, for the following radio equipments:
C11/B210, C13, C13 No 2, C14, C15, Q42 No 1, 2 and 3, C45 No 1, 2 and 3, and C11 (S.S.B.)

DESCRIPTION
The adaptor is a multi-purpose equipment providing facilities for either two-wire or four-wire simplex, or four-wire half duplex. It is designed for single-current operation as used on the T100R teleprinter, but double-current teleprinters can be used by suitably biasing the receive solenoid of the teleprinter to the receive condition and using only the tongue and mark contacts of the teleprinter transmitter in the transmit condition. The No 1 equipment is for operation from 24V d.c. and the No 2 equipment is for operation from a.c. mains. Provision has been made for operation at speeds of 50 bauds (60 w.p.m.) or 75 bauds (100 w.p.m.) with an extra provision for 750 baud data operations.
Facilities provided:

C42, C45 and C13:

Transmit:

Matched 2kHz tone to microphone input of trans-
mmitter, frequency modulated by the telegraph or
data signal.

Receive:

Tones taken from receiver headset socket and
applied to the adaptor band-pass filter, limiter
and audio discriminator are given out as d.c.
signals of positive and negative polarity. This
is amplified and shaped giving either a telegraph
supply (60V-0V) to the teleprinter line or 2Ma to
the data terminals by use of an in-built electronic
relay.

C11/R210 (S.S.B.), C14 and C15:

Similar facilities to those for C42, C45 and C13
but since the C11/R210 (S.S.B.), C14 and C15 use
s.s.b., tone modulation results in the radiation of
a c.w. r.f. signal entirely compatible with
conventional c.f.s. stations which can operate on
nets using International teleprinter standards.
Special connectors are required when using the C14
or C15.

C11/R210:

a. Simultaneous f.m. telegraphy and a.m.
voice.

b. f.m. voice

c. c.f.s. telegraphy.

Physical Data

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<tr>
<th>Unit</th>
<th>Type</th>
<th>Part No</th>
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<tbody>
<tr>
<td>A</td>
<td>YL 3147</td>
<td>21/6820-99-106-1423</td>
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<tr>
<td>B</td>
<td>YL 3148</td>
<td>21/6820-99-106-1423</td>
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<td>C</td>
<td>YL 3149</td>
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<td>D</td>
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<td>E</td>
<td>YL 3151</td>
<td>21/6820-99-106-1423</td>
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Facilities:

Unit A: For c.f.s. working when the transmitter is
remotely situated from the receiver adaptor terminals.

Unit B: For connecting the teleprinter to the adaptor
for either 2-wire or 4-wire operation.

Unit C: For f.m. speech and f.m. telegraph working
remote transmitter. This unit is connected between
the C11 CFS output on the adaptor and the D10 cable to
the remote position.

Unit D: Similar to unit C but is connected between
the D10 line and the C11 CFS input to the transmitter.

Unit E: For v.f. telegraphy over a 4-wire v.f. line.

Power Requirements:

No 1 adaptor(L607/00): 24V d.c. 1A. Internal stabil-
ilizers control input variations between 18 and 35V.
Reverse polarity protection is provided.

No 2 adaptor(L607/01): 100-120V or 200-240V a.c.
40-60Hz.

ASSOCIATED PUBLICATIONS

Complete Equipment Schedule:

Army Code No (Not yet issued).