

This guide is in two parts. Part I is for users of this instrument. Part II is for the sole use of the approved installer

## PART I - USER GUIDE

### RA705/2000 SERIES OF CB WEATHERPROOF TELEPHONES

The types of telephone covered by this guide are approved in the United Kingdom under the no. S/3064/3/N/XXXXXX for connection to a direct exchange line (i.e a line exclusive to the exchange meter, not a shared or party line), to an extension of a direct exchange line or to an extension on certain types of PBX, with the exception of the illuminated panel versions (/21X0).

These versions can only be indirectly connected to the Public Telephone Network via special PBX equipment approved to offer on-hook line current up to 5 milliamps.

No versions are suitable for use on party line installations or as extensions to pay phones.

#### **APPROVED FACILITIES**

This apparatus has been approved for the use of the following facilities:-

1. Audible alarm indication of incoming calls.
2. Installation access using special tools only.
3. Provision to introduce equivalent 'master socket' bell capacitor for directly wired applications, set by plug link on installation.
4. Provision to connect external extension bell.
5. Provision to locally signal the 'CALL' condition via separate calling switch.
6. Hearing Aid compatible earphone
7. Optional Extensible (/2X00 version) or Armoured (/2X50 version) handset cable.
8. Line powered illuminated panel area versions (/21X0) (1mA or 5mA set by plug link on installation)

Any other usage will invalidate the approval of the apparatus if as a result it then ceases to comply with the standards against which approval was granted.

Connection is effected by plugging in to the appropriate line socket. If your telephone connection is not fitted with new style sockets contact your approved telephone installer or the telephone network supplier (using the postcard provided).

If this method of connection is inadequate because for example the telephone is to be mounted outside, where new sockets are not intended to be used, arrange for your telephone network supplier to directly connect the instrument (using the postcard provided).

The telephone should operate correctly when connected to most compatible PBXs, including those that use secondary dialling tone. However it cannot be guaranteed that the apparatus will operate under all possible conditions of connection. Any cases of difficulty particularly in the case of the illuminated panel versions, should be referred in the first instance to your local supplier of the instrument.

This apparatus is intended to be internally accessible for installation purposes, only to authorized personnel and must be installed such that user access is prevented. Correct fitting and installation are mandatory as failure to prevent such user access will invalidate any approval given to this apparatus.

On the illuminated versions (/21X0) a user definable text panel is provided. To access this, first remove the clear cover using a small pointed tool. Insert required message printed on a thin clear piece of plastic film. This should be cut to be of maximum size of 74mm wide and 85mm high leaving 6mm clear area at the top and the bottom to allow for any masking effects when mounted.

#### **OPERATING PROCEDURE**

To make a call:

Open the door.

Lift handset and key 'PRESS' (if necessary).

Await operator answer.

At end of call replace Handset and close door.

To answer a call:

Open the door.

Lift Handset.

At end of call replace Handset and close door.

**RA705/2000 SERIES OF WEATHERPROOF TELEPHONES****INSTALLATION INSTRUCTIONS**

The RA705 telephone may be mounted either on the surface of a wall or to the side or top of a pole, using one of the accessory fixing kits available.

4 holes are provided at the rear corners of the telephone suitable for use with bolts up to 10mm diameter thread and 20mm diameter head size. Wall holes drilling pitch is rectangular, 155mm across and 412mm down.

To access the line connections, open the door and remove the four corner screws using a 2.5mm hex key. The cables are passed through relevant conduit and connected (in the case of directly wired situations) to the tag block on the lower part of the circuit card.

Both the front of the door and the sides of the telephone are designed to accept self adhesive labelling. Maximum size for all areas is 90mm wide by 375mm high.

**LINE TERMINAL connections and selections**

The number of telephones which can be connected to a direct exchange line or PBX extension is limited by the ringer equivalence number (REN) of all the telephones connected, which should not exceed a total value of 4.

The REN value of this telephone is 1. In case of doubt consult your telephone supplier.

The Terminal block mounted at the back of the unit is labelled as follows:-

1.	]	Handset		
2.	]	Loop		
3.	Line (B)		]	Rd
4.	Extension bell		]	Bl plug
5.	not connected		]	Gn 431A
6.	Line (A) & extension bell		]	Wh
7.	Call switch (common)			
8.	"	(normally closed)		
9.	"	(normally open)		

**Mode selectable plug links as follows:-****Factory set:**

LK1	enables 5mA illumination of panel	Fitted
LK2	enables internal audible ringer	Fitted
LK6	enables internal bell capacitor (only used when Master Socket not fitted)	Not fitted
LK7	disables panel illumination	Fitted
LK9	]	Fitted
LK10	]	Not fitted
LK11	]	Not fitted

Two spare plug links are provided, 'parked' at the top of the circuit board.

#### Internal Audible Ringer.

The instrument has three different sounder types as set by the plug links LK9, LK10 and LK11. This allows for different audible call alarms to be set in instances where co-located telephones cause confusion on incoming calls.

Only one of the links should set at any one time.

#### External Bell (or tone caller).

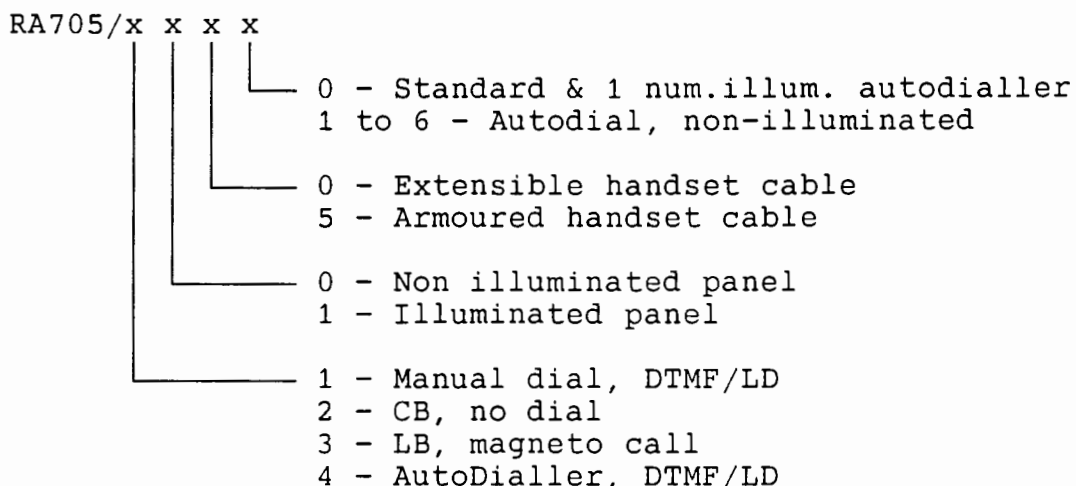
All bells must be approved for connection to the telephone network. They are of the low frequency A.C. type (15Hz-25Hz). D.C. or unapproved versions must NOT be used. Connect to terminals 4 and 6 of the tag block.

If it is required to disable the internal audible ringer (perhaps due to REN limitations) then remove the link LK2.

Ensure that plug link LK6 is fitted enabling the internal bell capacitor if a master socket is NOT used.

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The weatherproof telephones described in this guide are part of a family of instruments from Racal Acoustics Ltd. viz:



#### Spares & Accessories:

Side of pole fixing kit - Part No. ....

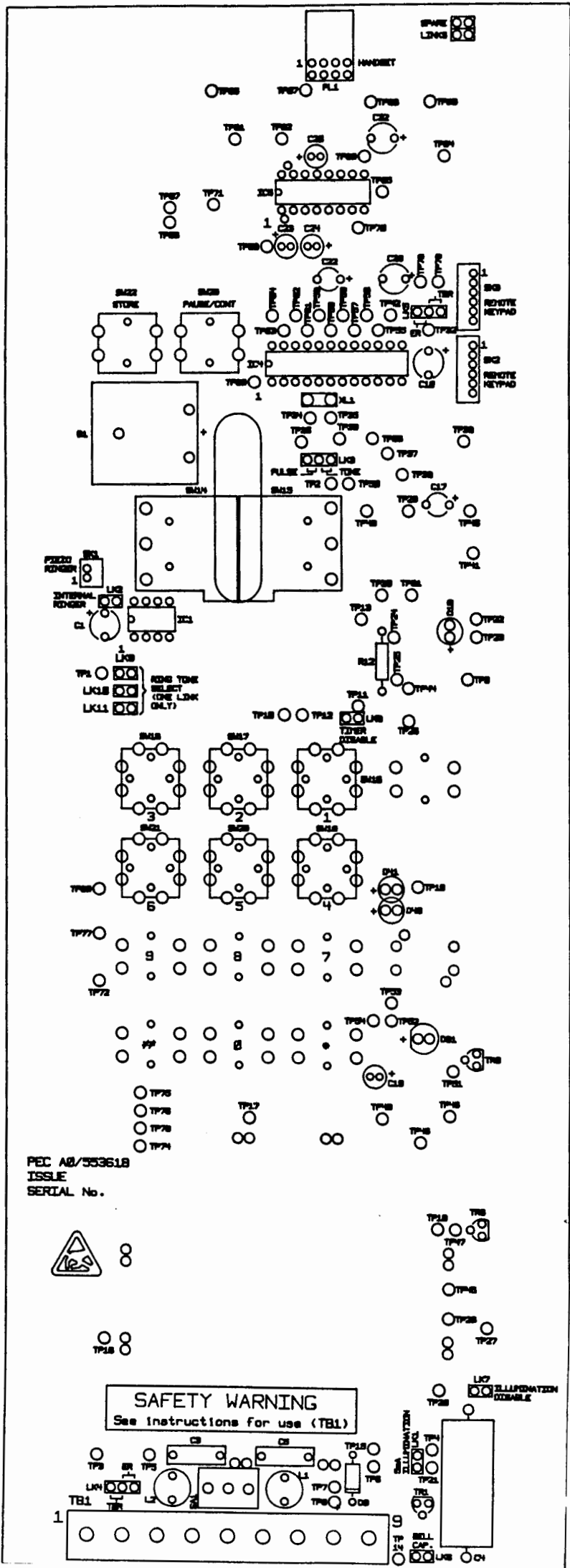
Top of pole fixing kit - Part No. ....

Armoured Handset - Part No. ....

Extensible Handset - Part No. ....

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TP18

**SAFETY WARNING**  
 See Instructions for use (TBL)

