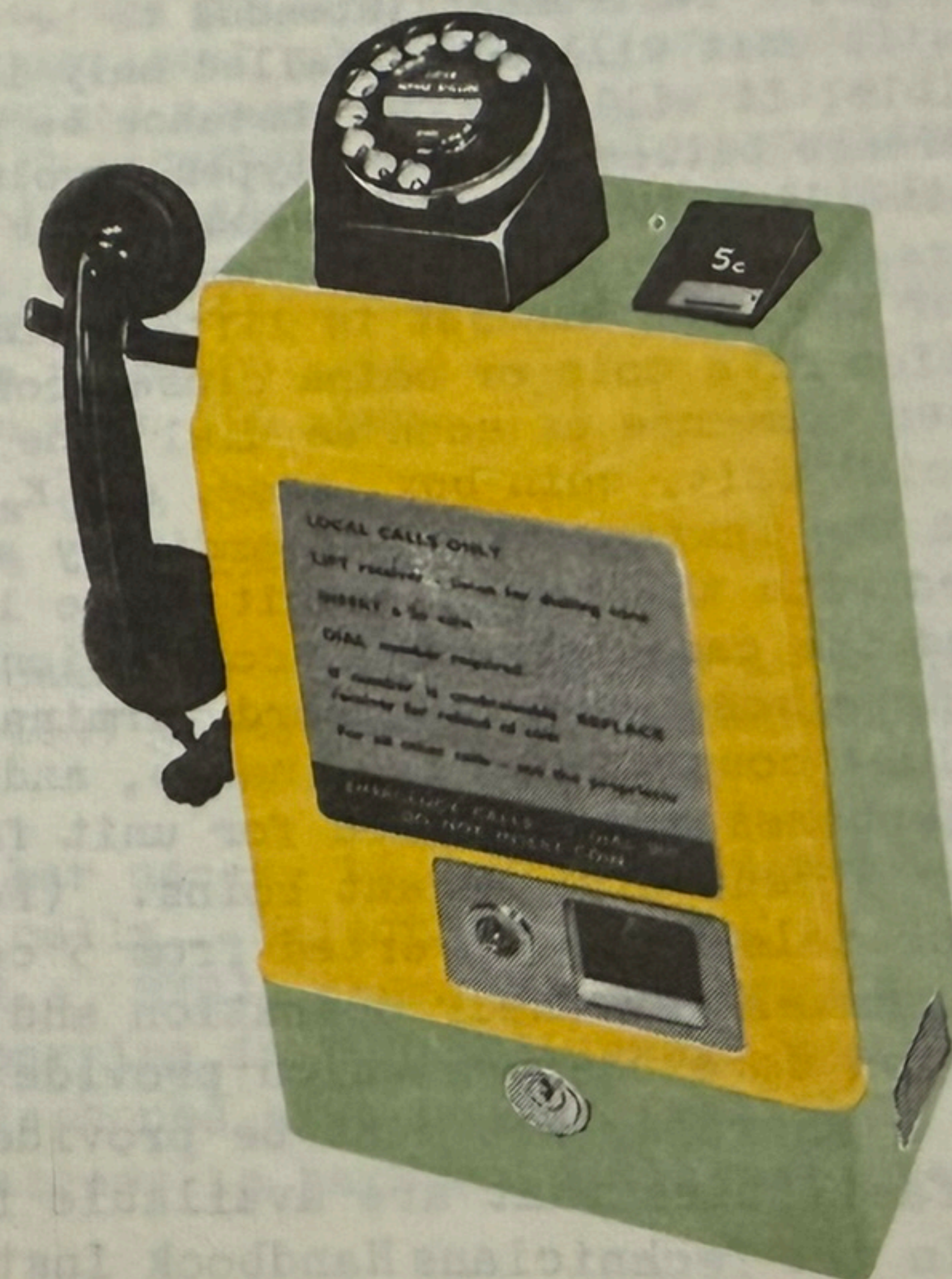


COMPANY COIN TELEPHONES



VICTA RED TELEPHONE.

COMMERCIAL MODEL.



Issue 1, 1969.

VICTA RED COIN TELEPHONES

GENERAL. Victa Telecommunication Co. Pty. Ltd., supply two models of the Victa Red Coin Telephone, known respectively as the Commercial and Domestic Units. The Commercial model, the original Victa Red telephone is a large and rugged instrument intended for fixed shelf or table top mounting. The recently introduced Domestic Unit is a smaller and lighter instrument intended to be used as a movable desk type telephone. The Domestic Unit will be installed only in locations where continuous surveillance is possible, it will not for instance be installed in lock-up shops. The major operational difference between the two types involves coin insertion. When using the Commercial Unit the line is looped as soon as the handset is lifted, insertion of a coin or coins removes a short-circuit from the dial impulse springs and allows dialling to take place. However when the handset is lifted from the Domestic Unit the line is not looped, the insertion of a coin or coins closes contacts and completes the loop circuit. Dialling can then commence as soon as dial tone is received. Three keys are provided for the Commercial Unit, coin box, case, and K.S. (The K.S. is used by the lessee to effectively convert the instrument to an ordinary automatic telephone). Only one key, K.S., is provided with the Domestic Unit. The lessee must provide his own padlock for the coin box, and the case is secured conventionally with four screws. Both types of instrument use a three conductor line cord terminated on a plug 603 (with socket 610). Line 1 (+ve, blue) connects to terminal 6, and Line 2 (-ve, white) connects to terminal 2. Both telephones are designed for unit fee working only and will accept an Australian 5 cent or 5 cent plus 2 cent coins. (For both models the lessee has the option of having the telephone converted from 5 cents to 7 cents working). They depend on reversal answer for their operation and coin collection and for this reason can only be connected to exchanges which provide this facility. When connected to a crossbar exchange, a MR relay set must be provided at the exchange to give reversal on answer. The Plan facilities that are available for the Victa Red Coin Telephones will be detailed in the Technicians Handbook Installation Diagrams.

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ADJUSTABLE STRAPS. There are two sets of adjustable straps, the line pad and area change connectors, situated within the instrument housing, both are altered by loosening a screw and moving a link to the alternative position and retightening the securing screw.

(a) Line Pad Connector. The adjustable strap on the printed circuit board is a line pad connector for short lines. Unless other local arrangements are made, the telephones will be delivered with the line pad connector set in position 3 (short lines). The Test Desk Operator will ascertain the line loop resistance value and advise the Installation Technician of the appropriate pad setting.

	<u>Line Loop Resistance</u>	<u>Strap Position</u>
Crossbar and 2000 Type)	Less than 500 ohms	3
Exchange)	More than 500 ohms	0
Pre-2000 Type)	Less than 200 ohms	3
Exchanges)	More than 200 ohms	0

(b) Area Change Connector. The area change connector's sole function is to provide ("S" position) or bar access ("NS" position) to non-metering numbers (e.g. Trunk Operators).

With these telephones it is essential to bar access to certain non-metering service numbers to prevent unauthorized calls. Selective barring is not available from some NON-STD exchanges (i.e. SXS), therefore to provide a standard method for the desired access barring in NON-STD areas, use is made of the access barring feature of the telephones area change facility. By placing the strap in the "NS" position access is barred to all non-metering numbers.

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In S.T.D. areas because selective barring to undesired levels is arranged in the exchanges by use of fleeting reversal access to authorized non-metering service numbers is given by placing the telephones area change connector in the "S" position.

It should be noted that the fleeting reversal returned when a barred number is dialled operates a relay within the telephone, which effectively prevents further dialling or transmission from the Commercial model and drops out the call from the Domestic model. In both telephones this barring is effective whether the area connector is in either the "NS" or "S" position.

SIGNALLING LIMITS. The D.C. line resistance limits for signalling purposes applying to the Victa Red Coin Telephones are 150 ohms less than ordinary services.

They are, for the following equipment:

- (i) Crossbar L.M.E. - 1,650 ohms.
- (ii) 2,000 type - 850 ohms.
- (iii) Pre-2,000 - 500 ohms.

For extension services the line limits for signalling purposes should include the exchange line loop resistance, plus extension line loop resistance, plus 100 ohms for switchboard and switching circuit.

CONDITIONS OF MAINTENANCE. Departmental Substation Maintenance Technicians will carry out front line maintenance, which means that he will replace defective transmitter and receiver insets, ear-caps and mouthpieces, plugs and sockets, handset and line cords, dials, but will not carry out major maintenance in the field. Departmental Substation Maintenance Technicians are responsible for the maintenance of the internal wiring to the socket.

When a fault exists in an instrument, which is not covered by front line maintenance, as mentioned above, the technician will advise the Test desk operator or the Despatch officer, whichever ever applies, who will:

- (i) Note details of fault and pass on the information to Victa (Telecommunications Division).
- (ii) Write on the fault docket, (V.R.C.T.) referred to company.

Victa (Telecommunications Division) will arrange to replace the instrument within an hour, it will not be necessary for the Departmental technician to await the arrival of the Company's representative who will connect the replacement instrument by means of the plug and socket.

The importance of keeping an accurate record of the number of maintenance visits is stressed as any omission to record a visit will result in loss of revenue. The following procedure should be followed:

- (i) All relevant fault dockets should be clearly marked to indicate that they refer to the Victa Red Coin telephone (V.R.C.T.) and filed separately after the docket has been cleared. If more than two faults occur on any one V.R.C.T. in a period of one month Victa (Telecommunications Division) should be notified.
- (ii) At the end of each month the number of maintenance visits to be debited to Victa shall be determined from the fault dockets and recorded by the Supervising Technician.
- (iii) Once each year, on a date to be specified, the Supervising Technician will forward to the Divisional Office a statement of the total number of visits recorded for the previous twelve months for inclusion in the Metropolitan area total.

All visits to the Subscribers premises following a fault report shall be counted for debiting to Victa unless the fault is found to be in the Department's wiring to the Socket 610, line or the exchange equipment.

EASIPHONE COIN TELEPHONE

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GENERAL.

The Easiphone coin Telephone is supplied by Elliott - Automation Pty. Ltd. It is similar to the Victa Red Commercial Unit in that it is a large instrument intended for fixed shelf or table mounting. A four conductor line cord is used, terminating on a 603/610 plug and socket. The circuit operation, facilities and maintenance procedures, differ from the Victa telephones only in the following points:-

- (i) Emergency Code "000" can be dialled without inserting a coin or coins or operating the control lock.
- (ii) A line pad connector is not included in the circuit.
- (iii) The area change facilities are obtained by strapping terminals 15 and 16 for NON-STD areas and terminals 16 and 17 for S.T.D. areas.
- (iv) The D.C. line resistance limits for signalling purposes are 800 ohms for both crossbar and step-by-step exchanges. For an extension service, the exchange loop plus the extension line loop resistance plus 100 ohms for the switchboard and switching circuits should not exceed 100 ohms.
- (v) The fault dockets are to be marked Easiphone and not V.R.C.T. and faults not covered by front line maintenance are to be referred to Representatives of Elliott Automation Pty. Ltd.
- (vi) The test procedure to include "Dial with any digit other than 0, should not break dial tone, dial 0, should break dial tone".

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TESTING PROCEDURE.

1. If the line or substation wiring is thought to be faulty key KS should be obtained from the subscriber and the KS lock turned. The service may then be tested as a normal subscriber.
2. Insert key KS obtainable from subscriber, but do not turn.
3. Victa Red Commercial Unit ONLY:
 - (a) Lift off - should get dial tone
 - (b) Attempt to dial - should not break dial tone
 - (c) Insert coin or coins. (If deposited, line is reversed and must be corrected).
 - (d) Dial "1" - should break dial tone.

Victa Red Domestic Unit ONLY:

- (a) Lift off - should NOT get dial tone
 - (b) Insert coin or coins - should get dial tone. (If deposited, line is reversed and must be corrected).
 - (c) Dial "1" - should break dial tone.
4. Commercial and Domestic Units:

Restore handset - coin or coins should be returned into coin-return chute.

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TESTING PROCEDURE. (Contd.)

5. Lift off and operate key KS.
6. Dial number of Test Desk and advise T.D.O. of call number of service and type of telephone.
7. Wait on line to be met by T.D.O. (via test distributor).
8. Restore Handset when requested by T.D.O.
9. T.D.O. carries out line tests and rings back.
10. Bell should operate satisfactorily - answer call without inserting coin or coins.
11. T.D.O. carries out dial and loop tests.
12. Insert coin or coins and request T.D.O. to speak on line.
13. Restore key KS:

In non-S.T.D. areas should hear T.D.O. but not be heard by T.D.O. (Strap "NS").

In S.T.D. areas should be able to speak with T.D.O. (Strap "S").

14. T.D.O. then reverses line - coin or coins should be deposited in coin box. It should now be possible to speak with T.D.O. in both areas.

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