



The Australian Commonwealth



George V Halfpenny



By V. W. Dix and A. W. Rowntree

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A C K N O W L E D G M E N T S

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V.W.D.
A.W.R.

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The illustrations are reproduced from the authors' own work (a combination of drawing and photography). The enlargement of the illustrations is four times linear, except in the case of the crown tops, in which it is approximately ten times linear.

C R O W N T O P S



NORMAL



II R 4



V L 1



V L 2



V L 3



VIII R 60



IX L 11



IX L 21
(1st state)



IX L 21
(Retouch)



IX L 23
(1st state)



IX L 23
(Retouch)



IX L 32



IX R 8



IX R 10



IX R 14
(1st state)



IX R 14
(Retouch)



IX R 15
(1st state)



IX R 15
(2nd state)



IX R 17



IX R 22
(1st state)



IX R 22
(Retouch)

INTRODUCTION

MANY values of the George V series have been intensively studied and the results of the studies have been published. The halfpenny value, although doubtless much is known about it, does not seem to have been studied so thoroughly, and the published notes are on the whole not very informative. As an example of this neglect it will be found that no variety of any of the first three electros was listed in the 18th edition of the Australian Specialists' Catalogue (1957). In the 19th edition of the Catalogue (1958) the section dealing with the halfpenny value was revised and some of the earlier varieties were catalogued for the first time. It will now be possible to use the catalogue and this check list together as a basis for the elucidation of the problems which still remain to be solved.

The present study is based on the investigations of the authors during a period of eight years. Many sheets and large mint blocks were examined and also many thousands of used copies. Even now the investigation is not quite complete and we have not seen 25 units (31-53, 55 and 56) of the lower half of the right pane of the third or "provisional" electro, which is sometimes called the "1916 electro" or "Rosenblum's 2nd plate." We have also been unable, owing to a lack of material, to make a detailed study of the issues in booklets and coils.

It was originally our intention to describe and illustrate the marginal or jubilee lines of the early electros, but this proved to be impracticable owing to the many different states of the lines as wear occurred during printing. It was never our intention, and no attempt has been made, to describe shades and papers by name, although there are some simple notes about shades in the identification key. Nevertheless an interesting study can be made of shades and papers, the former especially in all the green printings.

BOOKLETS

The halfpenny stamp was issued in a 2/- booklet ($\frac{1}{2}$ d., two panes of 6; 1d., three panes of 6; both with single watermark). This booklet is No. B4 of The Australian Commonwealth Specialists' Catalogue.

The booklet is rare and we have had no opportunity of studying the halfpenny panes used in its make-up.

COILS

During our examination of thousands of used copies of the halfpenny stamp we found less than a dozen with parallel guillotined edges indicating that they had come from coils. Most of these have guillotined edges above and below and only one has guillotined edges at the sides.

We have been unable to obtain any other material for the study of coil stamps, but there is some official information about them in The Philatelic Bulletin (1958, Nos. 30 and 31), from which the following details have been taken:

October 1915 to April 1919 $\frac{1}{2}$ d. coils of 960 available.

October 1916 Manufacture of $\frac{1}{2}$ d. coils discontinued, but they were sold up to 1918.

1918 $\frac{1}{2}$ d. coils manufactured again.

Early 1920 $\frac{1}{2}$ d. coils available.

September 1920 $\frac{1}{2}$ d. coils of 960 available. State Printer instructed to cease manufacture.

1923 $\frac{1}{2}$ d. coils re-introduced.

May 1927 $\frac{1}{2}$ d. coils available.

1930 $\frac{1}{2}$ d. coils available.

There is no reason to doubt the accuracy of the above dates and coils could therefore have been made up from sheets of any of the electros printed in green (electros I to VIII).

None of our guillotined copies has a legible date and none an identifying flaw, so that we are unable to add anything to the official information given above. Material is difficult to obtain and the study of the $\frac{1}{2}$ d. coil stamps will require much patience and some luck.

SHEETS

In order to understand our observations on the individual electros and on their different states, it is necessary to know something of the method of manufacture of electros for the George V stamps of Australia. An excellent description will be found in Philately from Australia (1952, 4, 106) and the following summary of this description should enable anyone unacquainted with the method to understand our observations. A flat die (negative) was used to strike single lead moulds (positive). These lead moulds were assembled in a forme of 120 clichés and the forme was copper-plated. The copper skin (negative) was backed and, in some cases, subsequently nickel-plated (still negative). It was then ready for printing the positive images on the sheet of 120 stamps.

The printing of the halfpenny value was almost certainly done from upper and lower electros used in pair.

For many years it has been accepted that the halfpenny value was printed from nine different electros during its period of currency. Nevertheless from time to time suggestions have been made that other electros were prepared and used. This could clearly have been done in three different ways: (1) the whole process could have been repeated from the start, and this was in fact done for the manufacture of the nine known electros; (2) a new electro could have been grown on the old forme, with

the moulds in the same position as before; or (3) the individual lead moulds could have been reassembled and would clearly have had different relative positions in the new forme. The known nine electros, made by the first method, have, as would be expected, absolutely characteristic flaws, and no flaw occurs on more than one electro. If the second method had been used, new electro flaws would have appeared in addition to those already present owing to original defects in the lead moulds. If the third method had been used, there would have been, in addition to the new electro flaws, the old flaws originating in the lead moulds, but, instead of being in the same relative positions as in the second method, they would have been in different positions relative to each other. We have found no evidence to suggest that new electros were produced by either the second or the third method. In our opinion, therefore, only nine electros were used, each being produced from a new set of lead moulds.

One set of upper and lower electros, the third, was used by Cooke and Harrison; and another, the fifth, by Harrison, Mullett, & Ash. The same electro can therefore be found with different imprints. It is known, however, that imprints could be changed by the printers during the period of use of an electro, and there is no doubt that it was done during the printing of other values.

A possible criticism of the hypothesis that only nine electros were used is that the requisite number of halfpenny stamps could not have been printed from only nine electros in the long period from 1915 to 1938 during which these stamps were current. The first two sets, each consisting of an upper and lower electro, were current from February 1915 to the early part of 1916 (probably March or April); the third set from early 1916 to the end of 1918; the fourth set from late in 1918 to late in 1923; and the fifth set from late 1923 to 1938. The life of an electro is limited and some of these periods, especially the last, are long for the life of an average electro. Some of the electros of the three-halfpenny value were in use, however, for a year or more, and it does not seem to be unreasonable to assume that the demand for the value covering the minimum letter rate would be at least fifteen times that of the halfpenny value, which, after 1915, covered only printed matter. If this assumption is correct, it is no more remarkable that two of the halfpenny electros lasted for 15 years than that some of the three-halfpenny electros lasted for one year. Even if the assumption is incorrect, there is still no philatelic evidence of the existence of other electros.

The development of flaws and their correction on the nine known electros must now be considered. Some of the flaws are present in the earliest known printings from an electro and others develop as wear takes place. This is to be expected and there can be little doubt that some of the unlocated constant flaws, of which there are relatively few, are flaws occurring late in the life of an electro. The methods of correcting flaws on existing electros are as follows: (1) "make-ready," (2) bumping up, (3) recutting,

and (4) added metal. All these methods except (4) seem to have been used in the printing of the halfpenny stamp. There is another method, known to have been used by Harrison on a number of occasions and already described by one of us (A.W.R.) in the three-halfpenny value—the substitution of a new cliché for a damaged one. One example of this method occurs in the halfpenny value. When Cooke stopped printing the third set late in 1918, the cracked cliché (the 46th stamp of the left pane of the lower electro) was in its most fully developed state. In the Harrison printings from the same electro this cliché shows no flaw, although all the other flaws of the late Cooke printings are still present.

The last difficulty in the interpretation of events during the period of use of this value occurs when the fifth set, consisting of the last two electros, was being printed by Ash. In 1928 or 1929 he made many repairs, but reference to the check list will show that there was a certain lack of uniformity in these repairs. The majority of the most conspicuous flaws disappear at this stage, and also some of the minor flaws. Quite a number of the conspicuous flaws, however, remain unchanged, which is not easy to understand if each flaw was considered separately and deliberately repaired. A more reasonable explanation would be that the copper shell of these electros was replated with nickel. This would remove those flaws which had originated in the nickel plating process or which had developed during use; but it would not remove the flaws inherent in the copper shell, whether they had originated in the lead mould or developed during the copper-plating process. The method of applying a new nickel covering to a copper printing plate is an accepted method of prolonging the life of the plate, although we have not seen it suggested before that it might have been used in the printing of the George V halfpenny stamps of the Australian Commonwealth.

The numbering of the electros for easy and accurate reference has given us some difficulty. It is usually, and naturally, unpopular with collectors to find that a classification already used in writing up their collections has to be changed. We hesitated, therefore, for some time before making even the small change which we have found to be convenient. Owing to the previous uncertainty about the origin and use of the so-called 1916 or reserve electro, the two classifications in common use are not quite accurate. Rosenblum's classification into five sets is as follows: 1st set—upper and lower plates; 2nd set—upper plate; 3rd set—upper and lower plates; 4th set—upper and lower plates; and 5th set—upper and lower plates. In the editions of the Commonwealth Specialists' Catalogue published by Orlo-Smith this classification was amplified by numbering the electros thus: 1st set—electros 1 and 2; 2nd set—electro 3; 3rd set—electros 4 and 5; 4th set—electros 6 and 7; and 5th set—electros 8 and 9. In the 19th and 20th editions of the Specialists' Catalogue (1958 & 1959) this amplification is repeated as follows:

1st plates and "provisional" plate (1, 2, 3); 3rd plates (4 and 5); 4th plates (6 and 7); and 5th plates (8 and 9). When it was discovered by one of us (V.W.D.) that the so-called 1916 electro (electro 3) had in fact been used in 1915 as the upper member of a pair with electro 2 as the lower member, we considered that some alteration in the classification had to be made. Since alteration was inevitable, we decided to add the convenience of having all the upper electros with odd numbers and the lower electros with even numbers. In our classification, therefore, electro IV does not exist, this number being

the number that would have been given to the customary lower electro for electro III, had one been made. The classification used in the following check list, is as follows:

1st set	Electros I & II
2nd set	Electros III & II
3rd set	Electros V & VI
4th set	Electros VII & VIII
5th set	Electros IX & X

The different classifications and a summary of the issues are set out in the accompanying table.

DIX & ROWNTREE

ROSENBLUM	CATALOGUE	ROWNTREE	
1st set—upper lower	1st set—electro 1* electro 2*	1st set—electro I electro II	Green, single (Cooke)
2nd set—upper	2nd set—electro 3*	2nd set—electro III electro II	Green, single (Cooke)
3rd set—upper lower	3rd set—electro 4 electro 5	3rd set—electro V electro VI	Green, single and multiple (Cooke and Harrison)
4th set—upper lower	4th set—electro 6 electro 7	4th set—electro VII electro VIII	Green, multiple and single; orange, single (Harrison)
5th set—upper lower	5th set—electro 8 electro 9	5th set—electro IX electro X	Orange, single (Harrison) Orange, small mult. (14) (Mullett) Orange, small mult. (13½ x 12½) (Ash) Orange, C of A (Ash)

*In the 19th edition of the Specialists' Catalogue (1958) the 1st and 2nd sets are combined.

PERFORATION

Some of the sheets of the first three electros were perforated with the single-line machine used for the first printing of the penny value and for the fivepenny value up to 1917. This perforation is rare in used copies and only one mint specimen is known to us. It is a right upper corner block of four from the right pane of electro III, which was described in Philately from Australia (1953, 5, 75), and is now in the collection of one of us (V. W. D.). One of our used copies, which is undated, is also from electro III (III R 7). The dates on our two dated copies are January 27th, 1916 and March 1916.

The exact gauge of the single-line perforation is 14.2 x 14.2. The comb perforation measures 14.25 x 14.0 and was used for all half-penny stamps up to November 1928, when it was re-

placed by the 13½ x 12½ comb perforation.

- (1) Capital letters are used when the flaw is considered by the authors to be of some importance. This does not apply to AUSTRALIA, POSTAGE, and HALF-PENNY, for which capitals are used throughout.
- (2) Capital letters in quotation marks indicate that the flaw is either catalogued or commonly known by the name we have used.
- (3) When two or more states of a stamp are described, it will be found that a flaw has appeared or disappeared permanently. Variations caused by over-inking and other temporary differences are not classified as different states.

ELECTRO I

(UPPER MEMBER OF 1st SET)

NOTES

THIS electro was made by J. B. Cooke and was used by no other printer. All the printings were on single watermark paper and some of the sheets were perforated with the single-line machine. The emerald and bright green shades are characteristic, but other shades, indistinguishable from those of later electros, also occur. The monogram JBC appears at the foot of the left pane under the second column and the monogram CA at the foot of the right pane under the 5th column. In each case the marginal line is cut away over the monogram as in other upper sheets.

This electro was the upper member of a pair of which electro II was the lower member.

The stamps of the sixth column of the left pane show characteristic scratches on the right side of the stamps, and these scratches can be identified on Nos. 6, 12, 18, 30 and 36.

One stamp (R6) is unique in design, having only one leaflet instead of two attached to the right of the right wattle stem.

Sheets printed from this electro were among the first to be issued in February, 1915, and dated copies indicate that the sheets were current for about a year.

CHECK LIST—LEFT PANE

1. Four flaws (two states):

1st state:

- (a) Left value shield: mark at left of upper left angle caused by almost complete absence of 25th and 26th shading lines (counting up); only a very small portion of the left end of each remains, and the flaw continues into the outer coloured margin of the shield.
- (b) Lower frame: clean break below and slightly to left of foot of Y of HALF-PENNY.
- (c) Upper left corner blunted.

2nd state:

- (a), (b) and (c) as before.
- (d) AUSTRALIA: leftward pointing flaw from lower portion of L which almost joins A.

4. Two flaws:

- (a) Lower frame: small round-ended notch, 0.5mm. wide, beginning 0.75mm. from right end.
- (b) Right frame: shallow shaving off frame for 0.5mm. at lower end.

6. "SCRATCHES" (at right): Right side: scratch extending from white border at level of top of fourth wattle to lower projection of frame at emu's feet and 1.0mm. from outer side of frame. This flaw sometimes extends further down and some copies show additional parallel scratches as follows: 0.5 mm. to left of and above main scratch; 0.5 mm. to right of main scratch downwards from emu's tail, occasionally extending through emu's tail and lower frame.

12. "SCRATCHES" (at right): Right side: scratch from top to bottom of stamp and 0.5mm. from outer edge of frame, beginning at upper point of inner white margin, continuing down in the frame to the curve of the white margin, re-appearing to cross the point of the frame projection, then cutting the tips of all the shading lines to the emu's tail and the tail itself, and finally cutting the shading lines below the tail to end at lower point of inner white margin (some copies show a parallel line 0.25mm. to right in upper portion of frame).

15. AUSTRALIA: thin white line like an acute accent joining right side of crossbar of T to white oval and penetrating bar of crown.

18. "SCRATCH" (at right) and flaw:

- (a) Right side: scratch extending downwards from a point to left of upper inward projection of frame to top right corner of right value shield and 1.5mm. from outer border of frame.
- (b) Value tablet: crescent-shaped flaw under H of HALF-PENNY (variable: may be over-inked).

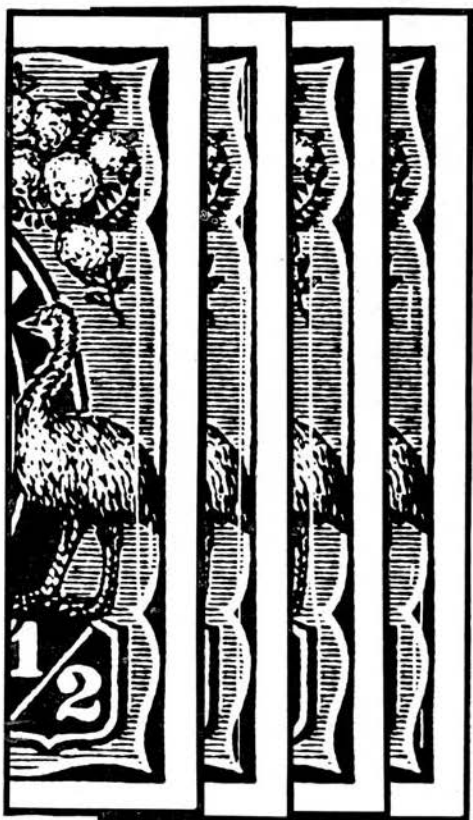
19. RETOUCH and flaw:

- (a) Upper left corner: somewhat clumsy re-cutting of inner portion of this corner. The inner side of the frame is cut away above and below the corner giving it a broadened and rounded appearance; the outer portion of the frame and the corner leaf are unaffected.
- (b) Kangaroo: the tip of the tail, which normally touches the lower projection of the frame, is cut away leaving a clear white space; the left ends of two shading lines immediately below are also missing.

30. SCRATCHES (at right): Right side: perpendicular scratches as follows—the first cuts through eight shading lines (the lowest level with the tip of the wattle stem) midway between the wattle stem and the white margin; the second through the tips of the 8th, 9th and 10th shading lines (counting down) below emu's tail; the third through the centre of the lower frame projection; the fourth through the tips of the shading lines at the right of the right value shield; the fifth a small scratch in the centre of the frame opposite the lower right corner of the value shield.

36. SCRATCHES (at right): Right side: small scratch, 0.75mm. from outer side of frame, downwards through six lines of shading, starting to right of tip of lowest leaflet at right of right wattle stem; also scratch downwards and sloping slightly to right through nine shading lines below emu's tail.

45. Right value shield: break nearly halfway up in left coloured border.



I L 6, I L 12, I L 18 (a), I L 30



I L 19 (a)

53. Lower frame: clean break under upright of L of HALF.

56. Left value shield: small vertical flaw, 0.75mm. long, 1.0mm. to right of upper portion of figure 1.

58. Shading at right of right wattle spray: weakness at right of lowest bloom. Left end of line immediately above right upper leaflet missing and outline of bloom broken at this point; the left end of the line below is also missing, and the second line above is broken at left.

RIGHT PANE

5. Left value shield: fine break sloping down

from left to right in middle of right coloured border.

6. ABNORMAL WATTLE SPRAY (at right) and two flaws:

(a) Right wattle spray: lowest leaflet at right of stem and lowest part of stem completely missing and replaced by continuation of five shading lines, which are usually normal, but occasionally slightly thicker than normal.

(b) Right wattle spray: diagonal scratch downwards from right to left beginning in white margin to right of fourth bloom, cutting end of stem and ending halfway to emu's back (sometimes over-inked and may be invisible).

(c) Head: vertical flaw, 1.0mm. long, caused by absence of part of two shading lines in front of ear.

11. Right frame: tiny notch on inner side 5.5mm. from lower corner (difficult to see in heavily inked copies).

12. Right value shield: tiny round flaw in line of diagonal just inside white border at its left lower corner.

15. Right lower corner: shaved off.

19. Four flaws:

(a) Right wattle spray: extensive white flaw replacing lower part of lowest flower and leaves below flower.

(b) Shading at right of right wattle spray: right half missing of 8th line (counting down).

(c) Upper frame: small angular notch 5.0 mm. from left corner.

(d) Right value shield: white flaw almost severing lower coloured border to right of point.

20. Right frame: variable irregular white flaw beginning 5.0mm. from lower corner.

22. Shading above right wattle spray: right quarter of 2nd line (counting down) completely missing, but with minute spot where it should end.

25. Left lower corner: shaved off.

30. Shading behind emu: left end missing of 6th line (counting down from emu) where it should join back leg (not always present).



I R 6 (a)



I R 19 (a) & (b)

34. Three flaws (two states):

1st state:

- (a) Shading below right value shield: right half of 4th line (counting up) missing below left corner of shield, but with minute colour spot where it should end.
- (b) Right frame: small irregular dot in centre of frame 6.5mm. from lower corner.

2nd state:

- (a) and (b) as before.
 - (c) Shading behind kangaroo: large spot 0.5mm. in diameter, resulting from breaks to left of centre of three lines behind small of back.
37. **Coloured oval:** linear flaw, 0.5mm. long, between first A of AUSTRALIA and nose of kangaroo.

38. **Shading below right value shield:** 3rd line (counting up) broken on left to leave only 0.5mm. of its left end.

42. **Upper frame:** oval bite, 0.5mm. wide, into underside of frame beginning 0.25mm. to right of inner point.

46. Four flaws:

- (a) Upper frame: circular spot, 0.5mm. in diameter, in frame, commencing 0.75 mm. from right corner.
- (b) HALFPENNY: small spur to left from top of leg of Y.
- (c) Left wattle spray: spot at nine o'clock on topmost bloom.
- (d) AUSTRALIA: notch in top of I.

47. Two flaws:

- (a) Right value shield: thick horizontal dash, 0.75mm. long, almost touching outer white margin at point slightly below level of top of Y.

- (b) Right value shield: thinning of left coloured frame at same level.

49. **Shading at left of crown:** flaw caused by break, 0.5mm. wide, at centre of 9th line (counting down) and weakening of the remaining right portion.

50. **Shading at left of crown:** break, 0.25mm. wide, at centre of 4th line (counting down).

51. Two flaws:

- (a) Left wattle spray: mark shaped like a "V" on its side pointing left at centre of topmost leaflet.
- (b) Shading below right wattle stem: break, 0.25mm. wide, in line immediately below and to right of foot of stem.

53. Two flaws:

- (a) Right wattle spray: vertical flaw caused by break in outline of fourth bloom at 12 o'clock with part of leaflet above missing.
- (b) Lower frame: narrow notch on inner side, 2.75mm. from right corner.

56. Two flaws:

- (a) Shading at left of crown: small break at centre of 2nd and wide break at centres of 3rd and 4th lines (counting down).
- (b) Shading at left of crown: break two-thirds of way to left in 5th shading line (counting down).

58. **Left wattle spray:** white flaw in tip of top leaf.

59. **Shading above emu:** conspicuous flaw caused by breaks near right ends of first three full-length lines above back.

60. **Left wattle spray:** outline of lowest bloom missing at eight o'clock. (Some copies show weakness of inner side of right frame and of shading below right value shield.)



I R 47 (a) & (b)



I R 59

ELECTRO II

(LOWER MEMBER OF 1st and 2nd SETS)

NOTES

MANUFACTURE, watermark, perforation and shades are the same as for electro I, with which this electro was used in pair as the lower member. The monograms are in the same positions as in electro I but the marginal line over them is not cut away.

This electro was also used as the lower member in pair with electro III (see notes on electro III), and printings from this combination must have been made in 1915, the earliest date for an electro III flaw in our collections being November 25th, 1915.

This electro has no special characteristics.

LEFT PANE

1. **"BREAK IN LEFT FRAME" and flaw:**
 - (a) Left frame: deep downward curving notch, 1.0mm. long, cutting through three-quarters of frame, starting 6.0mm. from top.
 - (b) Left wattle spray: gash, 2.0mm. long, diagonally down from left to right below and parallel with the middle leaf at left. The gash cuts away a little of the underside of the leaf and right portions of all adjoining lines of shading, and ends in the outline of the lowest bloom.
3. **Left frame:** narrow horizontal cut through outer half of frame 1.0mm. below upper corner.
4. **Kangaroo:** small notch at back of neck at level of 3rd and 4th shading lines below wattle stem.
5. **Upper left corner:** cut off for 0.25mm. above and at side.
7. **"GASH IN KANGAROO'S TAIL":** perpendicular flaw, 4.0mm. long and 0.5mm. wide, beginning on rump and ending as a weakening of the shading lines below tail.
9. **POSTAGE:** small downward notch into coloured band at point above one o'clock on the letter O.
13. **Shading below right value shield:** break in 3rd line (counting up) immediately to right of point.
14. **HALFPENNY:** E and N joined by a small flaw sloping upwards from upper part of lowest line of E.
16. **Emu:** colour spot on shoulder midway between top of front leg and back.
18. **Right wattle spray:** small diagonal flaw sloping downwards from right to left and cutting through the stem just above the lowest leaflet at right.
19. **Left wattle spray:** small flaw at upper centre of lowest leaf at foot of spray.
20. **Shading over right wattle spray:** large colour flaw, 1.0mm. long, joining three lines of shading immediately to right of topmost leaflet (not always present).

24. RETOUCH and flaw:

- (a) Shading below right value shield: the two lowest lines below the right corner are appreciably thicker than normal, probably as the result of slight "bumping up."
 - (b) Lower frame: small white mark in middle of frame 2.0mm. from right corner.
25. **Value tablet:** small horizontal projection from left side of vertical limb of F of HALFPENNY just below level of lower horizontal limb (sometimes over-inked).
 28. **Left upper corner:** shaved off, often with a tiny notch in upper frame immediately to right of shaved-off part.
 29. **Left upper corner:** shaved off (not always present).
 30. **Head:** small horizontal flaw adjoining outline of ear, 0.25mm. below top.
 31. **Shading in oval:** break in 8th line of shading (counting up) just before it joins neck below Adam's apple.
 32. **Two flaws:**
 - (a) Shading above emu: break in first full-length line above back just before it joins the centre oval.
 - (b) Right frame: small variable mark, 1.5 mm. below top.
 35. **Shading under head:** left end missing of 9th line (counting up) where it should join cut-off part of neck.
 37. **Left frame:** small angular notch on outer side, 12.0mm. below top.
 39. **Two flaws:**
 - (a) Upper frame: narrow break, 4.25mm. from right (sometimes over-inked).
 - (b) Right frame: small mark 5.0mm. from lower corner.
 42. **Right wattle spray:** small scratch, 1.0 mm. long, cutting two lines of shading above, and one below, two leaflets (which are also cut) at right of topmost leaf.
 44. **Shading at right of right value shield:** two colour dots, the first joining the centres



II L 1 (a) & (b)



II L 7

of the 14th and 15th lines (counting up), the second being in the white margin immediately to the right of the 15th shading line, which is slightly shortened at its right end.

45. **Shading between crown and left wattle spray:** almost perpendicular scratch, 1.5mm. long, through seven shading lines, and nearer to wattles than to crown.

51. **RETOUCH and flaw:**

(a) Right frame: bumping up with consequent narrowing of the white margin for 1.5mm. beginning 11.5mm. down and thickening of the right ends of twelve shading lines adjacent and below.

(b) Upper right white margin: small faint colour flaw to right of centre of fourth bloom of right spray.

52. **Left white margin:** small colour flaw immediately to left of top middle leaf of left wattle spray.

55. **Lower frame:** spot 1.0mm. from right corner.

RIGHT PANE

3. **Upper right corner:** extension of white border into outer frame and blurring of corner. (Varies considerably and would be difficult to identify in some single copies.)

4. **"NO TOP TO CROWN" and two flaws:**

(a) Upper frame: spot, 3.25mm. from right corner, breaking through frame above.

(b) Crown: top almost completely missing (probably later printings only). In the copies showing this flaw the upper frame for a variable distance on each side of the crown shows wear.

(c) Lower right portion of stamp: a number of small marks mostly in thicker portion of lower right frame, but some are at and above right lower corner of value shield, and one small dot below and to right of tail of figure 2 (occasionally almost completely over-inked).



II R 4 (a) & (b)



II R 8 (P)
II R 24 (L)

6. **Two flaws:**

(a) Shading above emu: break near left end of the 7th full-length line (counting up).

(b) Head: faint blurred flaw near back just above level of top of ear.

8. **Value tablet:** round spot above vertical limb of P of HALFPENNY.

9. **Value tablet:** slight cutting-off of left part of foot of vertical limb of P of HALFPENNY (not present in some copies).

17. **Left frame:** small spot near outer edge 2.0mm. below upper corner.

24. **Value tablet:** small spot midway between bottom of upright of L of HALFPENNY and white margin.



II R 27



II R 28

27. **Head:** almost horizontal gash, 3.5mm. long, from back of neck to point of jaw (not in early printings).

28. **Crown:** white tear-shaped flaw in upper left quarter of orb.

30. **Two flaws:**

(a) Value tablet: marks like rust marks below and mingling with the bottom of the letters LFPENNY.

(b) Right frame: sharp notch into emu's tail, 10.0mm. from lower corner.

32. **Right frame:** irregular flaw 2.0mm. above lower corner (not always present).

33. **Crown:** small flaw joining lower left quarter of orb to left support line.

35. **"CRACKED CLICHÉ" and flaw (two states):**

1st state: Early printings.

(a) Value tablet: similar to No. 30 but with fewer spots, the majority being below the letters LFP.

2nd state: Later printings, perhaps only the latest of all.

(a) As before.

(b) Left side: crack begins 1.5mm. above and to left of P of POSTAGE and continues downwards to join foot of P to outer white oval.



II R 35 (b)

36. **Value tablet:** similar to No. 30 but with fewer spots, which are below the letters HALF.
40. **Shading between crown and left wattle spray:** shortening of left ends of 15th and 16th lines (counting down) and part of adjacent leaf missing.
45. **Right frame:** minute spot at outer edge 0.5mm. above lower corner.

48. **Three flaws:**
- Value tablet: similar to No. 30 but with far fewer spots, the majority of which are below the letters LFP.
 - Left value shield: horizontal linear flaw, 1.0mm. long, below figure 2.
 - Upper frame: tiny notch on inner side 2.0mm. from right corner.
50. **Shading at right of right value shield:** break near right end of 18th line (counting up).
53. **Oval:** developing flaw between moustache and inner white margin of oval; in earliest printings appears as a darkening of the whole area, on which an egg-shaped flaw, 0.5 x 0.75 mm., below the nose develops later, and later still a circular spot, 0.25mm. in diameter, between the upper lip and the white margin.
54. **Shading at right of right wattle spray:** colour flaw joining centres of 4th and 5th lines (counting down).
56. **Upper frame:** break 0.25mm. wide, beginning 4.25mm. from right corner.
60. **Right frame:** angular notch just below emu's tail and 8.0mm. above lower corner.

ELECTRO III

(UPPER MEMBER OF 2nd SET)

NOTES

THIS electro was made by J. B. Cooke. Manufacture, watermark, perforation, and shades are the same as for electros I and II, and it was used as the upper member in pair with electro II (see below). The monogram CA appears at the foot of the left pane under the third column, and the monogram JBC at the foot of the right pane under the fourth column. The marginal line is cut away over the monograms, leaving in each case a line little thicker than an ordinary pen-stroke, and very noticeably thinner than the lines over the monogram of electro I and electro V. There is a grille of about 16 dots of slightly varying size in the marginal line under the left part of the 6th stamp of the bottom row (No. 60) of the right pane. There is no grille of dots anywhere in the marginal line under the left pane.

Sheets printed from this electro must have been issued before November 25th, 1915, which is the earliest date we have seen. It is interesting to consider the relative periods of use of this electro and electro I as the upper partner of electro II. There is no doubt that stamps from this electro are rare, especially large mint blocks. We know of only two large mint blocks: an almost complete left pane (59 stamps) in the possession of one of us (V.W.D.) and a block consisting of the lower twelve stamps of the right pane (not yet seen). In addition we have, or have seen, several blocks of four, some of them marginal; and we have also seen the right pane monogram strip of four from the Kilfoyle collection. We have also examined several panes of 30 overprinted "N.W. Pacific Islands," two of them in the possession of one of us (V.W.D.). The rarity of such pieces does suggest that this electro was used much less than electro I.

The proof that this electro was used as the upper member of a pair of which electro II was the lower member is a block of 12 from the upper part of the left pane of electro II, in which the lower part of a monogram appears over the third stamp. The upper electro of this printing must, therefore, have been either electro III or electro V, since the monogram of electro I is below the second column and not the third. We believe that it could not have been electro V, since the earliest dated copies from this electro are at least five months later than the earliest copies of electro III.

The identification of flaws from the lower half of the right pane is the most important remaining problem in the study of the halfpenny value, and it is perhaps more likely to be solved by the existence of a pane of 30 overprinted "N.W. Pacific Islands" than by the discovery of a similar block without the overprint.

This electro has no special characteristics.

CHECK LIST—LEFT PANE

1. Three flaws:

- (a) White oval: small rounded flaw on inner edge below AU of AUSTRALIA caused by absence of left ends of one or two shading lines (not in heavily inked copies).
- (b) Head: blurred spot in hair below centre of parting.
- (c) Head: two spots at back of neck, the upper of which is level with the lobe of the ear, caused by breaks in the 3rd and 4th shading lines (counting from back).

2. Shading in oval: spot midway between forehead and inner white oval below AU of AUSTRALIA.

5. Four flaws:

- (a) Kangaroo: horizontal oval spot, 0.75 x 0.5mm., joining legs and commencing 1.0mm. above base of leg.
- (b) Left frame: narrow break 9.5mm. below upper corner (sometimes over-inked).
- (c) White margin at left: colour spot joining frame to left end of 3rd frte shading line below left wattle stem.
- (d) Right frame: very narrow break 8.0mm. above lower corner.

7. Right white margin: small colour flaw filling margin and joining 11th shading line (counting down) to frame.

8. Kangaroo: spot, 0.5mm. in diameter, on tail, commencing 1.5mm. from tip.

12. Shading at left of crown: 2nd line (counting down) roughly thickened downwards and almost joined to line below.

15. Right frame: minute V-notch 5.0mm. from lower corner.

16. Three flaws:

- (a) Upper left corner: spot in frame.
- (b) Right frame: comma-shaped mark for 0.5mm., commencing 5.0mm. from bottom.
- (c) Shading in oval: break in 4th line (counting up) 0.5mm. in front of neck.

17. Crown: first pearl enlarged into small flaw running diagonally down from right to left.

18. Shading on right: four parallel perpendicular scratches from lowest leaflet of spray to highest part of emu's back.

20. AUSTRALIA: almost perpendicular line through middle of upper loop of S.

22. Two flaws:

- (a) Left wattle spray: oval colour spot in upper centre of third bloom.
- (b) Right frame: blurred spot 6.25mm. from upper corner.

23. Shading above emu: right ends missing of 2nd and 3rd full-length shading lines above back.

24. Two flaws:

- (a) Right side: two parallel perpendicular lines, the longer starting at the first in-



III L 5 (a)



III L 36

ward curve of the right margin and passing down through all the shading lines (rather less than 1.0mm. from outer edge of frame) to end at the last inward curve of the right margin, but occasionally extending to lower frame, the shorter parallel and 0.5mm. to the left, starting in upper white margin and ending at emu's back.

- (b) Left frame: spot 6.0mm. below upper corner.

25. **Two flaws:**

- (a) Upper left corner: white margin distorted and extended into left frame and the tip of the adjacent wattle leaf missing.
 (b) Upper frame: slightly shaved down for 1.5mm. over first bloom of left spray.

30. **Three flaws:**

- (a) Right side: perpendicular scratch, 0.75 mm. from outer side of frame, beginning at first inward curve of white margin, continuing through all the shading lines and emu's back, and ending at lowest inward curve of white margin (sometimes extending through ten lines of shading at right of right value shield). Shorter parallel scratch, 0.25mm. to the left, beginning at upper white margin and ending above the first inward curve of the white margin.
 (b) Left value shield: small dot 0.5mm. below figure 1.
 (c) Left value shield: break almost at right end of 3rd shading line (counting up) at left of shield.

36. **CRACKED CLICHÉ:**

The outer white oval above kangaroo's ears is blurred for 3.0mm. and extended downwards to kangaroo's nose

37. **Two flaws:**

- (a) Kangaroo: rectangular colour spot on centre of pouch.
 (b) Shading at left of left value shield: the 20th, 21st and 22nd lines (counting up) are abnormal; the 20th and 22nd are thinned while the 21st is much thicker than normal.

46. **Right frame:** inward curve for 1.5mm. beginning 5.5mm. from the top.

54. **Right value shield:** small spot in upper right corner.

57. **Right frame:** bluntly notched for 0.5mm. beginning 0.25mm. from the bottom.

58. **"BROKEN CORNER" and two flaws:**

- (a) Lower left corner: crack through corner affecting left frame for 2.5mm. and beginning 2.5mm. from the bottom; all shading lines are either broken or irregular, or both, to the left of and below the left lower corner of the left value shield; the bottom frame is split and broken for 3.25mm. beginning 1.5mm. from the corner.
 (b) Left value shield: small horizontal line to right of upper part of figure 1.
 (c) Right wattle spray. crescent-shaped flaw cutting stem immediately below lowest bloom.



III L 58 (a) & (b)

59. **"RETOUCH":**

Lower frame, margin and shading lines at left: all the coloured portion of the stamp from the right end of the value tablet leftwards to the left border is slightly or considerably heavier than normal, probably the result of intentional or accidental bumping up. The most noticeable feature is the thickening upwards of the frame below the value tablet with slight extension downwards of the tablet itself resulting in considerable narrowing of the white margin. All shading lines below the left value shield are slightly thicker than usual (these latter alone would not be identifiable in single copies).



III L 59

60. **Lower frame:** irregularity of lower side of frame for 1.5mm. beginning 0.5mm. from right corner, usually having the form of two small notches.



III R 7 (b)

RIGHT PANE

7. Three flaws:

- (a) Head: spot just above and slightly to left of ear.
- (b) Lower left corner: point of frame blunted and abnormally thick for 3.5mm. up with consequent thinning of the inner white border; the middle 2.0mm. of the shading line at left of the tip of the left value shield is missing.
- (c) Right frame: spot 1.5mm. above lower corner.

9. CRACKED CLICHÉ and flaw:

- (a) Kangaroo and left value shield; blurred marks on the forepaws, thickening of the inner white oval above hind leg, thickening of the upper quarter of the fraction bar with a line joining it to the figure 2 at 11 o'clock, blurring of left side of figure 2, blurred flaw from tip of figure 2 to white frame of shield, the outer coloured frame of which is broken to the left of its point.
- (b) Head: transient flaw, a large irregular-shaped "bull's-eye," 1.0mm. in diameter, obliterating lobe of ear and part of cheek (later states show a blurred white patch).



III R 9

11. "CLUBBED FRACTION BAR" and four flaws:

- (a) Left value shield: large irregular flaw joining under side of end of fraction bar.
- (b) Shading at right of right wattle spray: weakness in lines, the right end of the 20th line (counting down) being absent, and the 22nd and 25th lines almost entirely absent.
- (c) Shading above emu's back. left ends of 5th, 6th and 7th lines (counting up) are either weak or missing.
- (d) Emu: a number of spots on body.
- (e) Shading below emu's tail: breaks in 6th, 8th and 11th lines (counting down).



III R 11 (a)



III R 60. With grille of dots in marginal line below

- 13. **Left frame:** minute notch on inner side 7.75mm. below upper corner.

19. RETOUCH:

Left upper corner: "bumped up" resulting in thickening of left and upper frames, darkening of all wattle leaves and shading lines to left of blooms.

- 25. **Right lower corner:** tiny triangular nick at right end of lower frame and slightly larger nick at lower end of right frame giving the corner itself the appearance of a tiny projecting square.

27. Two flaws:

- (a) Left wattle spray: large irregular flaw in right centre part of corner leaf and shading lines between this leaf and the topmost bloom.

(b) Shading at right of right value shield: the 6th, 7th and 8th lines (counting up) are thickened and joined together.

30. **White oval and POSTAGE:** thickening of right white line outside white oval at its lower end and smudging between thickened part and upper bar of E.

54. **Two flaws:**

(a) Left frame: diagonal break downwards from right to left 4.0mm. from upper corner.

(b) Right value shield: vertical flaw, 0.5mm. long, over figure 2.

* * * *

Following units not yet seen:

31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	
55	56				



A 5

THE flaws in the following list are constant and we have two or more copies of each, at least one of the copies having a 1915 date. They may be among the missing units listed above, or they may be late flaws developing in units which were normal in the earlier printings.

CHECK LIST

A1. **Lower frame:** broken for 0.5mm. beginning 5.0mm. from right corner; sometimes there is a trace of colour in the upper part of the break.

A2. **Right frame:** blurred perpendicular flaw of variable extent affecting the inner portion of the frame below and to right of lower projecting point (shading lines below and to right of point of right value shield are also weak or shortened, but this is common to other clichés).

A3. **Right frame:** notch, nearly 0.5mm. wide at base, beginning 7.25mm. above lower corner.

A4. **Lower frame:** two small spots, the first and larger 2.25mm. from right corner; the second, which is slightly higher, 2.75mm. from corner.

UNPOSITIONED

CONSTANT FLAWS

(ELECTROS I, II AND III)

A5. **CRACKED CLICHÉ:**

Left side: the crack begins at left of top of A of AUSTR, continues down kangaroo's left ear and forehead, and distorts both inner and outer white ovals in front of kangaroo as far as the P of POSTAGE: it then goes diagonally down and to the left, curving through the figure 2, and ends at the right bottom corner of the left value shield.

A6. **Three flaws:**

(a) Shading to right of right wattle spray: minute break at centre of 7th line (counting down).

(b) Left lower corner: diagonally cut off, shortening left and lower frames by 0.25 mm.

(c) Right frame: faint blurred marks adjacent to lower projecting point (common to a number of other clichés).

A7. **Shading behind emu:** left ends missing of 3rd and 4th lines (counting down from bottom of wattle stem) where they should meet back of emu's head.



A 8

A8. **Emu:** horizontal crack like a conventional streak of lightning with two jags and a point at inner side of first curve of neck.

A9. **Emu:** prominent flaw, 3.0mm. long and 0.5mm. wide, tapering at both ends, sloping up to right from top of right leg and ending at back (variable and occasionally blurred).

ELECTRO V

(UPPER MEMBER OF 3rd SET)

NOTES

THIS electro was made by J. B. Cooke and was used by him for printings on single watermark paper, the accepted date of issue being May 1916; and later, from January 1918, on large multiple watermark paper. Many different shades of green appeared during this period. The monogram JBC appears at the foot of the left pane under the third column and the monogram CA at the foot of the right pane under the fourth column, with the marginal line partially cut away over each monogram.

In May 1918, when the printing of Commonwealth stamps was taken over by T. S. Harrison, he used this electro. At first perhaps the monograms were not changed but later a second CA was substituted for the JBC. All Harrison's printings were on multiple watermark paper with the exception of a small number of single watermark sheets probably used in error. Any variety (see below) appearing only during the Harrison period is therefore very rare on single watermark paper.

This electro was the upper member of a pair of which electro VI was the lower member.

The crown tops in the upper row of each pane become worn in later printings. A certain number of the stamps exist in first and second states, and the second state on single watermark paper may be very rare, occurring only in the Harrison single watermark printing.

CHECK LIST—LEFT PANE

1. "NO TOP TO CROWN" and two other flaws (three states):

1st state: Early single watermark printings.

- (a) Right frame: small notch 5.0mm. from bottom.

2nd state: Later single watermark printings and multiple printings (except the latest printings).

- (a) As before.
(b) Emu: scimitar-shaped blurred gash almost perpendicularly through back and three lines of shading above.

3rd state: Latest multiple printings.

- (a) and (b) as before.
(c) Crown: top almost completely worn away.

2. "SPOT AFTER 2" (right), "NO TOP TO CROWN," and third flaw (two states):

1st state: All printings, except the latest on multiple paper.

- (a) Right value shield: blunt notch from right edge to just above tail of figure 2 which it joins.

- (b) Head: flaw under ear caused by divergence of 4th and 5th shading lines to right of lobe, the lines being joined together by a colour spot immediately below the flaw.

2nd state: Latest multiple printings.

- (a) and (b) as before.
(c) Crown: top almost completely worn away.

3. "EIGHT WATTLES" (left) and "NO TOP TO CROWN" (two states):

1st state: All printings, except the latest on multiple paper.

- (a) Left wattle spray: oval flaw between top and second wattles.

2nd state: Latest multiple printings.

- (a) As before.
(b) Crown: top almost completely worn away.

7. RETOUCH:

Shading behind kangaroo: ten lines just below small of back thickened.

8. AUSTRALIA:

Spot under right serif of T joining white medallion frame.

9. Head: small horizontal mark cutting two shading lines above temple (sometimes faint in multiple printings).

10. Two flaws:

- (a) Right frame: break 12.5mm. from lower corner.
(b) Shading behind kangaroo: small break in 2nd line (counting up from wattle stem) near right end.

11. Left white margin: widening owing to absence of point of upper inner projection and shortening of tips of one of two adjacent leaflets.

12. Left frame: broad, shallow notch 6.5mm. above lower corner.

13. Lower frame: white inverted comma-shaped flaw 6.75mm. from left corner.

15. Two flaws:

- (a) Shading behind kangaroo; eleven lines worn and shortened where they should join back from the shoulder down.
(b) Shading at right of right wattle; all lines between level of upper inward projection of right frame and top of fourth bloom either weak, missing, or with right ends absent.

16. Two flaws (two states):

1st state: Early single printings.

- (a) POSTAGE: small downward notch into colour band immediately over space between G and E.

2nd state: Later single and multiple printings.

(a) As before.

(b) Right frame: steep diagonal break downwards from right to left, 1.25 mm. long, beginning on outer side 6.0mm. from lower corner and ending on inner side 4.75mm. from corner (somewhat reduced in heavily inked copies).

17. **Two flaws:**

(a) Shading at left of left wattle spray: right ends missing of four lines where they should join left side of lowest bloom.

(b) Shading at right of wattle spray: right end of 12th line above base of stem missing.

18. **Shading below emu:** right ends missing of 5th and 11th full-length lines (counting down).

20. **Two flaws:**

(a) Shading behind kangaroo: 14th, 18th, 19th and 20th lines (counting up) behind rump weak and shortened.

(b) Value tablet: dot under left leg of first N of HALFPENNY (not in early single printings).

22. **Two flaws:**

(a) HALFPENNY: lower half of E, and frequently also P, swollen and blurred.

(b) Shading in oval: small break slightly to right of mid-point of a line between back of head and base of emu's neck (not visible in some copies on multiple paper).

25. **Two flaws:**

(a) Upper frame: minute spot 6.0mm. from right corner.

(b) Shading at right of emu's back leg: six lines shortened at right where they should join right margin (counting down from emu's tail they are the 8th, 9th, 10th (only thinned), 12th, 15th and 16th).

26. **"RETOUCHED CORNER" and flaw:**

(a) Lower left corner: left frame below kangaroo's rump and behind tail is first thinned, then bulges outwards, and finally curves inwards level with the tip of the tail. The lower portion of the frame is thickened on the inner side, narrowing the white margin both below and to right of corner. The two

LEFT PANE



V L 1 (b)



V L 2 (a)



V L 3 (a)



V L 7



V L 8



V L 26 (a)



V L 28 (a)



V L 32



V L 35



V L 56 (a)



V L 60

LEFT PANE

lowest lines of shading are thickened and joined. In early copies the corner of the frame is sharply pointed but all later copies show blunting of the corner and downward and/or outward protrusion.

- (b) Coloured oval: tiny dot 1.0mm. below kangaroo's forepaws.

28. RETOUCH and two flaws.

- (a) Shading behind kangaroo: seven lines of shading behind back thickened with slight shortening of centre three where they should join back.

- (b) Shading at left of left value shield: 16th 17th and 18th lines (counting up) thickened and nearly always joined. Many other lines frequently thinned or shortened, especially those just above left upper corner of shield.

- (c) Shading at right of emu: first nine lines (counting up) above back abnormal, some being thicker, and others thinner, than usual; nearly all shortened at left and some joined at right.

29. Two flaws:

- (a) Shading at right of right wattle spray: 20th, 21st and 22nd lines (counting down) distorted and 23rd almost missing at right of four: bloom.
- (b) Shading behind kangaroo: two lines weak with right halves missing behind rump.

30. Three flaws (two states):

1st state: Single and early multiple printings:

- (a) Right frame: small notch 9.25mm. from top.
- (b) Shading at left of left value shield: variable weakness in 9th to 14th lines (counting up).

2nd state: Later multiple printings.

- (a) and (b) as before.
- (c) Right frame: narrow notch or break 4.25mm. above lower corner.

32. **Head:** diagonal gash from back downwards to centre of ear.

33. Two flaws (two states):

1st state: Early single printings.

- (a) Value tablet: colour flaw obliterating lower part below bar of left vertical limb of H of HALFPENNY and extending to left into adjacent shading.
- (b) Head: spot at back, to right of end of parting, breaking outline of head and affecting left ends of 5th and 6th lines (counting down).

2nd state: Late single printings and multiple printings.

- (a) Not present.
- (b) As in 1st state.

34. **Head:** small mark in lower centre of beard (often overinked).

35. **Head:** gash from temple to top of ear.

37. **Upper frame:** oval blurred spot, 0.75mm. long, commencing 1.5mm. from left corner.

38. **POSTAGE:** small dot over P.

40. Three flaws:

- (a) Shading behind kangaroo: a number of lines weak and broken behind back and shoulder.
- (b) Shading at left of left wattle stem: two lines broken and distorted.
- (c) Shading at right of right wattle stem: four lines shortened where they should join right side of two lowest leaflets.

43. **Lower frame:** rounded dent on underside of frame below FP.

44. **Left wattle spray:** small flaw at left of lowest leaf.

48. Two flaws:

- (a) Shading at left of left value shield: right end missing of 18th line (counting up) where it should join left side of shield.
- (b) Shading above emu: break at centre of 1st full-length line above back and also in line immediately below (frequently over-inked).

49. Two flaws:

- (a) Shading behind kangaroo: 18th line (counting up) broken and completely missing in later printings.
- (b) Shading at right of right wattle: shortening of right end of 7th line (counting up from foot of wattle stem); present in most copies.

53. Two flaws:

- (a) Right frame: small sharp notch into emu's tail 9.0mm. from lower corner (sometimes over-inked and nearly invisible).
- (b) Shading between emu's legs: colour flaw joining middle thirds of 7th and 8th lines (counting up).

54. Two flaws (two states):

1st state: Early single watermark printings.

- (a) Coloured oval: tiny notch in edge below G of POSTAGE.

2nd. state: Later single printings and multiple printings.

- (a) As before.
- (b) Emu: blurred flaw affecting lower half of front leg, shading to right of leg, and oval to left of leg.

56. Four flaws:

- (a) Crown: angular flaw at right joining fleur-de-lis to pearls.
- (b) Shading at right of right wattle spray: several lines missing at level of projecting point of frame making border wider.
- (c) Left wattle spray: small spots on two uppermost leaflets at right of stem of middle wattle leaf.
- (d) Kangaroo: large flaw, 1.75 x 0.75mm. (at its widest part), diagonally down from right to left across elbow (frequently over-inked).

57. AUSTRALIA: spot in upper centre of U (often over-inked).

62. POSTAGE: accent on E joining it to inner white oval.

RIGHT PANE

2. Two flaws:

- (a) Shading below sixth bloom of left wattle spray: 2nd line (counting down) broken at centre.
- (b) Shading at left of left wattle stem: weakness or breaks in three lines.
(N.B.—Common to several clichés.)

4. Right wattle spray: flaw to right of fourth bloom caused by absence of two lines of shading and cut into right side of lower of two adjacent leaflets

5. CRACKED CLICHÉ and two flaws (two states):

1st state: Single watermark.

- (a) AUSTRALIA: small round flaw between T and R.

2nd state: Late single and multiple printings.

- (a) As before.
- (b) AUSTRALIA: left upper serif of I prolonged in an upward curve.
- (c) CRACKED CLICHÉ: developing crack consisting in early stages of small break in shading line immediately below point of neck; then appearing at left and right of top of P of HALFPENNY, which is now joined at both points to outer white oval.

6. Right frame: rounded notch beginning 3.5mm. above lower corner (not in early single printings).

7. Right frame: break diagonally down from left to right, 4.5mm. from bottom.

9. Shading at left: left end missing of 6th line (counting down from wattle stem). Some copies also show shortening of all five lines immediately above.

10. Left value shield: variable blurred flaw in left lower corner of shield, usually triangular in shape with apex almost touching end of fraction bar.

RIGHT PANE



V R 5 (c)



V R 10



V R 34 (a)

RIGHT PANE



V R 40



V R 55 (a)



V R 56 (a)

12. **Head:** cut above bridge of nose, 1.0mm. in length, affecting two shading lines and continuing through to eyelid.
13. **Two flaws:**
- (a) Kangaroo: lower portion of tail broken off where it should join frame.
 - (b) Shading at right of right spray: 18th to 22nd lines (counting down) thinned or missing at right of fourth wattle; part of adjacent leaf also missing.
15. **Lower frame:** break 5.0mm. from left corner with two very small notches, 0.5mm. and 1.0mm. further to right.
16. **RETOUCH and flaw:**
- (a) Head: eight lines of shading at front of neck, all strengthened.
 - (b) Head: flaw in shading of cut-off part of neck.
17. **Two flaws:**
- (a) Shading to right of right wattle spray: right half missing of 2nd line above middle leaf.
 - (b) Shading below emu's tail: right end missing of 5th full length line (counting down) and slight shortening of 4th line.
18. **Shading to right of right wattle spray:** left ends missing of almost all seven lines where they should join right side of two lowest leaflets and right end missing of 1st long shading line below lowest right leaflet.
19. **Shading behind emu:** three shading lines in corner formed by back and white outer margin are distorted and partly missing.
25. **Four flaws:**
- (a) Emu: small mark on back, 1.5mm. from outer frame.
 - (b) Shading at right of right value shield: right end of 16th line (counting up) missing and 17th line broken.
 - (c) Shading behind emu's back leg: shortening of left ends of 13th and 14th lines (counting down) where they should join leg.
 - (d) Shading below left value shield: shortening or thinning of 3rd shading line (counting up) below left side of shield. The 2nd line turns down and joins the tiny bottom line.
29. **Right frame:** more or less perpendicular variable mark, 0.75mm. long, beginning 1.0mm. from top of frame.
34. **RETOUCH and two flaws:**
- (a) Left wattle spray: retouch to upper half of spray, the first five blooms being whiter than normal with additional flaws above, at centre, and at left, of spray.
 - (b) Shading behind kangaroo: ten lines to left of back distorted, thinned or shortened, the upper ones running together at their left ends.
 - (c) Value tablet: blurred line over P of HALFPENNY.
36. **Head:** two smalls spots midway between top of ear and back of head. The left spot is oblong, running down from right to left, and the right spot is smaller and sometimes almost triangular in shape (smaller spot sometimes absent).
40. **"BARB ON FRACTION BAR":**
Right value shield: blurred line, 0.75mm. long, at right angles to and 0.5mm. up from lower end of fraction bar to which it is joined.
42. **Shading at right of right wattle spray:** variable flaw affecting all lines at right of lowest bloom. The left ends of three lines which should join bloom are missing. Both left and right ends of first two below are missing or weak and left end of 3rd line below is missing.
44. **Shading behind kangaroo:** left end of 4th line (counting down from bottom of wattle stem) is missing. Left ends of 11th and 14th lines also missing, giving the inner side of the white margin a wavy appearance. One line of shading at rump also shortened at right.
51. **Shading below emu:** right end missing of 11th full length line below tail.
52. **Kangaroo:** small notch in back behind elbow.
55. **"DOT BEFORE 2" at right and two other flaws:**
- (a) Right value shield: almost circular spot, 0.5mm. in diameter, mid-way between point of figure 2 and fraction bar.

- (b) Shading over right wattle spray: 6th line (counting down) shortened at right where it should join corner wattle leaf.
- (c) Shading below emu: right end missing of 5th full length line below emu's tail.

56. RETOUCH and two flaws (two states):

1st state: Single and Cooke multiple printings.

- (a) Shading in oval: shortening or weakness of two lines (opposite base of emu's neck) where they join back of head, with white blurring of adjacent hair. There is a fine break at the centre of the line above the two shortened or weakened lines (sometimes over-inked).

- (b) **POSTAGE:** small mark to left of A, level with cross-member.

2nd state: Later multiple printings, perhaps only Harrison printings; copies on single watermark paper over-printed N.W. Pacific Islands are known (c.f. thin fraction retouch and see note on Harrison multiple and single printings).

- (a) and (b) As before.

- (c) **POSTAGE:** flaw joining G and E at top.

57. Head: small spot on extreme edge of back of head and opposite but slightly below level of emu's beak

58. Two flaws:

- (a) Kangaroo: patch on hip.

- (b) Right lower corner: worn away (intermittent).

In early single printings both flaws are almost non-existent.

59. Three flaws (two states):

1st state: Single and Cooke multiple printings.

- (a) Upper frame: circular flaw with smaller mark to left of it, 1.25mm. from left corner.

- (b) Lower right corner: blunted (intermittent).

2nd state: Later multiple printings, perhaps only Harrison printings; one copy is known on single paper, presumably from the rare Harrison printing (c.f. thin fraction retouch).

- (a) and (b) As before.

- (c) Head: horizontal flaw, 0.5mm. long, midway between upper part of ear and back of head.

60. Two flaws (two states):

1st state: Early single printings.

- (a) Shading to right of right wattle spray: left ends of two lines to right of upper right leaflet below bottom bloom missing; the lower line has a notch to left of centre (not always present in very early printings).

2nd state: Late single and multiple printings.

- (a) As before.

- (b) Head: oval spot in hair just above temple.



V R 59 (a)



V R 59 (c)

ELECTRO VI

(LOWER MEMBER OF 3rd SET)

NOTES

MANUFACTURE, watermarks, shades and accepted dates of usage are the same as for electro V, with which this electro was used in pair as the lower member. We have, however, copies on single watermark paper used in March and April 1916. The monogram CA appears at the foot of the left pane under the third column and the monogram JBC at the foot of the right pane under the fourth column. A CA monogram was substituted for the JBC monogram by Harrison.

The rarity of some second states on single watermark paper occurs with this electro also. The special features are a substituted cliché and a well-known retouch (the thin fraction at right) both by Harrison. At the end of the Cooke printings on multiple paper the cracked cliché (L46) had reached its maximum development. This cliché on all Harrison left panes we have seen is absolutely normal, although the flaws on neighbouring stamps remain unchanged. On all the Harrison right panes we have seen the thin fraction retouch is present on R43. On the two complete Harrison sheets we have seen, the substituted cliché (L46) and the retouch (R43) are both present, and, until a sheet is reported with only one present, it must be assumed that both repairs were made at the same time.

CHECK LIST—LEFT PANE

2. Three flaws (three states):

1st and 3rd states: Early single and multiple printings.

- (a) Right value shield: white dot near left border just below level of base of figure 1.
- (b) Upper frame: tiny notch 5.5mm. from right corner (not always present, perhaps over-inked).
Neither flaw present in earliest single printings.

2nd state: Later single printings.

- (a) and (b) As before.
- (c) Right margin: coloured spot filling white margin 3.5mm. from bottom.

7. Two flaws (two states):

1st state: Early single printings.

- (a) Outermost coloured oval: break over first A of AUSTRALIA.

2nd state: Late single and multiple printings.

- (a) As above.
- (b) Left wattle spray: break in outline of third bloom at 12 o'clock causing flaw 0.5 x 0.25mm.

11. Two flaws:

- (a) Kangaroo: circular spot on rump caused by shortening of 20th and 21st shading

lines (counting up) where they should join back and by a small nick in the back itself.

- (b) Upper coloured band: small spot midway between kangaroo's nose and first A of AUSTRALIA (sometimes faint or over-inked).
Neither flaw occurs in early single watermark printings.

16. Two flaws (two states):

1st state: Early single watermark printings.

- (a) Kangaroo: circular spot on back just above thigh.

2nd state: Late single printings and multiple printings.

- (a) As before.
- (b) Head: dewdrop on nose caused by breaks in two shading lines.

17. "EIGHT WATTLES" at left and another flaw:

- (a) Left wattle spray: oval flaw on and just above right of top bloom.
- (b) Left value shield: blurred flaw, 1.0mm. wide, from base of figure 2 to white border below.
Neither flaw occurs in early single printings.

19. Left value shield: colour flaw in white border, 0.5mm. to left of point.

22. Crown: flaw in left portion of cross.

24. Shading at left of right value shield: right half missing of 7th shading line (counting up) where it should meet left lower corner of shield.

25. Value tablet: diagonal flaw cutting right lower corner and removing small line of shading between point of frame and tablet.

28. Shading at right of right wattle stem: slight thinning of 4th and 5th lines (counting up from base of stem) where they join right side of stem; right end of 6th line sometimes weak or missing (not present in early single printings).

31. Kangaroo: egg-shaped mark, 0.5mm. long, on rear portion of thigh (late multiple watermark printings only).

32. Head: almost vertical flaw, 1.0mm. long, starting 1.0mm. above tip of ear at the point where the shading lines of the forehead end and the hair begins.

34. Shading at right of right value shield: blob of colour joining 21st and 22nd lines (counting up) at a point just above top right corner of shield.

37. Two flaws (two states):

1st state: Single and early multiple printings.



VI L 16 (a)



VI L 17 (a)



VI L 32



VI L 46
(early state)

LEFT PANE



VI L 46
(final state)

- (a) Left frame: small flaw at edge, 1.0 mm. from top.
- 2nd state:** Late multiple printings.
- (a) As above.
- (b) **POSTAGE:** small white mark midway between P and O, one-third of the way up.
42. **Coloured oval below emu:** tiny spot, 0.5 mm. below emu's breast.
45. **Crown:** centre-piece of fleur-de-lis at right is enlarged upwards till it unites with white wedge above it.
46. **"CRACKED CLICHÉ":**
Broad crack at left extending from right of top bloom of wattle spray to left limb of U of AUSTRALIA, thence in a narrower form over the top of the first A, through the kangaroo's face, and ending at front leg.
This flaw is absent in early printings on single paper. It first appears in later single printings in the wattle only, and develops to its full extent in printings on multiple paper. In the final printings on multiple paper by Harrison the flaw is no longer present, this being the only known example of a substituted cliché in the halfpenny value.
47. **POSTAGE:** small flaw below P extending through white oval to upper part of left value shield.
49. **Three flaws (two states):**
1st state: Early single watermark printings.
(a) White margin above left wattle spray: colour flaw 1.75mm. from outer edge of left frame.
(b) Shading above left wattle spray: colour spot joining left ends of 2nd and 3rd lines (counting down).
2nd state: Later single watermark printings and multiple watermark printings.
(a) and (b) As above, but may be faint or absent.
(c) Lower left corner: blunt, rounded and almost broken through to point of inner white margin.
54. **Shading in oval:** small colour spot above AG of POSTAGE with shortening of right end of 2nd line (counting up) inside oval and slight thinning of 3rd line immediately above.

55. **Right value shield:** small dot near left edge and just higher than lower end of fraction bar.
56. **Four flaws:**
- (a) Emu: small flaw 1.0mm. above front claw of front foot.
 - (b) Right value shield: tiny downward projection from base of figure 1.
 - (c) Left frame: dot 2.5mm. above lower corner.
 - (d) Right value shield: dot in coloured frame 0.75mm. to left of point.

57. **Two flaws:**
- (a) Shading in oval: shortening of left end of line joining point of beard (13th counting up).
 - (b) Shading below left value shield: break near right end of line which joins left side of point of shield.
60. **Lower frame:** small diagonal notch pointing up and to left, 3.25mm. from right corner.

RIGHT PANE

3. **Left margin:** variable colour spot joining frame to 2nd and 3rd shading lines below left wattle stem.
4. **Right frame:** open notch through rather more than half of right frame, 9.0mm. below upper corner (not in early single printings).

6. **Shading behind emu:** left end of 1st line below right wattle stem missing where it should join back of emu's head.
11. **Upper frame:** small notch, 1.5mm. to right of crown.
13. **Two flaws:**
- (a) Right value shield: clean break through right coloured border at upper angle.
 - (b) Value tablet: H and A of HALFPENNY joined at foot.
14. **Three flaws (two states):**
- 1st state:** Single and early multiple printings.
- (a) Upper left corner: blunt and rounded.
- 2nd state:** Later multiple printings.
- (a) As above.
 - (b) Coloured oval and shading lines above kangaroo's head: flaw removing right ends of three lines at right of sixth bloom of left spray and breaking outer coloured oval.
 - (c) Shading above kangaroo's head: weakness or break almost at centre of two or three lines at right of lowest bloom of right spray.
21. **Left wattle spray:** 5th and 6th blooms joined by blurred flaw.
22. **Emu:** flaw, almost triangular, at point where rear leg joins body (Harrison multiple printings only).



VI R 22



VI R 26



VI R 31

RIGHT PANE



VI R 36 (b)



VI R 43 (b)

24. Three flaws:

- (a) Left frame: small notch at very top (in later printings the corner appears merely to be shaved).
- (b) Lower frame: narrow diagonal break or small spot 3.5mm. from right corner.
- (c) Colour band: small spot 1.0mm. above kangaroo's toes.
None of the flaws appears in early single printings.

26. CRACKED CLICHÉ:

Oval: crack beginning at kangaroo's paw and going to lip, then from back of moustache to lobe of ear, and finally from lower part of back of ear to back of head (not in single and early multiple printings).

29. Two flaws (two states):

1st state: Early single printings.

- (a) Upper frame: break beginning 0.75 mm. to right of cross .

2nd state: Later single printings and multiple printings.

- (a) As above.
- (b) Right frame: rounded notch, 0.5mm. wide, beginning 1.0mm. from upper corner.
In the very earliest single printings this stamp is normal.

31. Left wattle spray: upright gash beginning in right portion of top bloom and ending 1.5mm. below, level with centre of third bloom (not present in early single printings).

32. Shading below emu: oval spot, 1.0mm. long, below tail caused by shortening of the right ends of the 6th, 7th and 8th shading lines (counting down) and slight denting of inner side of frame.

36. RETOUCH and two flaws (two states):

1st state: Early single printings.

- (a) Shading behind emu: 15th and 16th lines (counting down) broken behind heel of rear leg, the upper failing to

join the leg and the lower being broken immediately before meeting heel.

2nd state: Later single printings and multiple printings.

- (a) As before.
- (b) Upper frame: retouched and thickened to a variable extent for 5.0mm. beginning 2.5mm. from left corner.
- (c) Emu: spot on tail.

43. "THIN FRACTION RETOUCH" and flaw (two states):

1st state: Cooke printings on single and multiple watermark paper.

- (a) Right wattle spray: small oval flaw at one o'clock on fourth bloom.

2nd state: Harrison printings on multiple and single watermark paper.

- (a) As before.
- (b) Right value shield: both figures noticeably thinner than normal. As this retouch occurs only in Harrison printings, it is therefore rare on single watermark paper.

44. Shading below right wattle stem: break in 2nd free line immediately below stem.

48. Shading between emu's legs: break in 3rd line (counting up from rear foot) to right of centre (not in earliest single watermark printings).

49. Lower frame: notch on inner side below and to left of H of HALFPENNY.

57. Coloured oval: dot between two inner oval lines, opposite upper part of kangaroo's nose.

59. Value tablet: small spot below and slightly to right of right foot of second N of HALFPENNY, which it almost joins.

60. Shading behind emu: break two thirds of the way from left end of 5th full length line (counting up) above back.

ELECTRO VII

(UPPER MEMBER OF 4th SET)

NOTES

THIS electro was made by T. S. Harrison and was used only by him. The first printings (issued in October 1918) were on paper with the large multiple watermark. Single watermark paper was used after about two years and the stamps on this paper appeared in October 1920. Many different shades of green were used during this period and up to the summer of 1923. During this period also the one-line imprint was in use: "T. S. HARRISON, COMMONWEALTH STAMP PRINTER." In September 1923 stamps appeared in a pale yellow-green colour, which can always be identified without difficulty; and at the same time a two-line imprint was substituted for the one-line imprint. In November 1923 the orange printings from this electro appeared, the two-line imprint being used. The panes are surrounded by a marginal or jubilee line.

This electro has no special characteristics. Two of the best-known retouches in this value occur in the left pane (Nos. 52 and 53).

CHECK LIST—LEFT PANE

1. **Two flaws (two states):**
 - 1st state: Multiple and early single (green) printings.
 - (a) POSTAGE: spot almost joining left lower serif of A to bottom of T.
 - 2nd state: Single (green and orange) printings.
 - (a) As above.
 - (b) Top frame: small notch 7.0mm. from left corner.
2. **Right value shield:** dot immediately above point of shield.
6. **Value tablet:** small rounded projection to left from top of F of HALFPENNY.
8. **Two flaws:**
 - (a) Shading above emu's back: break at centre of 9th full-length line (counting up).
 - (b) Shading in oval: shortening of right end of 5th line (counting up) and slight thinning of 6th line (variable and sometimes absent).
9. **Shading in oval:** two lines level with base of emu's neck slightly shortened at their right ends where they meet white oval of centre medallion with a minute notch into adjacent coloured oval at base of emu's neck (variable and sometimes absent). There is also a slight dent in the coloured oval immediately to right.
10. **Two flaws:**
 - (a) Right wattle spray: two or three shading lines and part of small wattle leaf missing just above I of AUSTRALIA.
 - (b) Right wattle spray: horizontal white mark normally found in fourth bloom prolonged to the right.
11. **"SPOT ON HEAD" and second flaw (two states):**
 - 1st state: Multiple and single (green and early orange) printings.
 - (a) Head: large spot at back, the top being level with the point of emu's beak.
 - (b) Shading behind head: variable weakness in left portion of line immediately behind head and level with bottom of emu's neck.
 - 2nd state: Later orange single printings.
 - (a) As above.
 - (b) Develops into a flaw behind head.
12. **White margin at right:** line of colour for 0.5mm. beginning 10.75mm. from top, with thinning of adjacent right frame.
14. **Shading to right of left wattle spray:** variable flaw at right of fifth bloom caused by absence of left ends of two lines.
16. **Left frame:** break 11.75mm. from bottom.
17. **Shading in right upper corner:** 7th and 10th lines (counting down) weak and broken.
19. **Shading behind emu's head:** coloured spot joining two shading lines immediately behind back of head.
26. **Crown:** spot on and below lower left quarter of orb of crown.
29. **Outer coloured oval:** wide break opposite centre of U of AUSTRALIA.
35. **Right frame:** narrow break 3.5mm. from bottom (not in multiple and early single printings).
47. **Head:** small white spot at back slightly below level of emu's beak.
49. **RETOUCH and two flaws:**
 - (a) Head: retouch joining or thickening six lines behind head and level with base of emu's neck, the line immediately below being thinned or broken.
 - (b) Shading behind kangaroo: four lines level with centre of back shortened at ends adjoining left margin and causing a flaw up to 0.75mm. x 1.0mm. (variable and does not appear in some green single printings).
 - (c) Top frame: fine break cutting downwards from right to left 3.0mm. from left corner.
50. **Shading in oval:** lower side of 14th line (counting up from point of neck) at back of head thinned and notched (very variable, being almost invisible in some printings, and in others showing as a complete break).
52. **"HEADLESS EMU" RETOUCH:**
Emu: head dark with eye and most of white lines of upper part of neck inked out.



VII L 11 (2nd)



VII L 29



VII L 47 & 50



VII L 49 (a)



VII L 52



VII L 53



VII L 54 (a)

LEFT PANE



VII R 23 (a)



VII R 23 (b)



VII R 26

RIGHT PANE



VII R 49
Twenty-nine



VII R 54 (a) & (b)

53. "BROKEN-NECKED EMU"

RETOUCH:

Emu: extensive retouching all round neck. Right sides of two lines of shading in centre medallion shortened; white segment of oval below third A of AUSTRALIA re-cut and irregular, neck inked out and white segment of oval behind neck wide and irregular.

54. RETOUCH and flaw:

- (a) Retouch to crack through ear: white marks to left and right of top of ear, with darkening of top of ear and above (very variable, sometimes showing only a dark patch).
- (b) Shading below right wattle stem: wide break in 2nd line, often with small break in one or two lines immediately above.

56. **POSTAGE:** small upward notch from white oval below E.

57. Two flaws:

- (a) Kangaroo: small circular spot at centre of leg, 0.75mm. above heel.
 - (b) Shading below right value shield: break 0.5mm. wide in two shading lines below left curve of shield.
58. **Shading in oval:** spot in shading to right of top serif of P of POSTAGE caused by shortening of left end of 8th line (counting up), with a slight notch into line above.

60. **Left value shield:** flaw in right side level with tail of figure 2 (not always present).

RIGHT PANE

1. **Lower frame:** thinning (in light inkings a clear break) for 1.0mm. of lower side of frame commencing 8.0mm. from left corner.

4. Two flaws:

- (a) Shading over right wattle spray: breaks in two shading lines immediately above small leaf over fourth bloom.
- (b) Left frame: small white mark just below top corner of white border (sometimes over-inked).

6. **Right frame:** sharp, deep horizontal mark at bottom almost reaching point of white margin (not in multiple printings and early single printings).

9. **POSTAGE:** small outward notch at centre of right side of T.

10. Two flaws:

- (a) Left wattle spray: diagonal left to right downward cut from tip of top left leaf.
- (b) Head: small mark in lower part of beard and above Adam's apple.

11. **AUSTRALIA:** spot between middle and lower curves of S, sometimes joined to lower curve.

12. **Right value shield:** diagonal break in outer frame in a continuous line with fraction bar (not in early multiple printings).

14. **Shading in oval:** break in 8th line (counting up) 0.75mm. before it meets neck (not in multiple and early single printings).

17. **Shading below emu's tail:** colour spot joining right ends of 6th and 7th full-length lines (counting down).

23. Two flaws (two states):

1st state: Multiple printings.

- (a) Head: diagonal mark, 1.0mm. long, downwards from left to right at back,

upper end being level with the top of the ear.

2nd state: Single (green and orange) printings.

- (a) As before (sometimes not present in green printings).
- (b) Kangaroo: two small flaws, the larger just above and parallel with forehead, the smaller touching white oval in front of nose.

26. **AUSTRALIA:** spot joining left leg of last A at left side just below bar.

28. **Line of spots across right lower portion of stamp:** first, at top part of emu's rear leg; second, at joint of front leg; third to sixth continue line to just above top serif of E of POSTAGE; seventh, on upper corner of S of POSTAGE; eighth and last, below curve of tail of figure 2.

37. **Shading above left wattle spray:** the short line immediately to right of tip of upper leaf is diagonal instead of horizontal and joins upper right leaflet.

38. Two flaws (two states):

1st state: Multiple printings.

- (a) Left frame: narrow-necked notch with rounded end 2.5mm. from top.
- 2nd state: Single (green and orange) printings.

(a) As before.

- (b) Left wattle spray: break at seven o'clock in outline of fifth bloom.

39. Two flaws:

- (a) Left wattle spray: break at four o'clock in lowest bloom and shortening of three adjacent shading lines (sometimes invisible in heavy printings).
- (b) Emu: spot at base of neck

45. **Kangaroo:** blurred flaw in centre of up-right portion of leg.

47. Two flaws:

- (a) Shading in oval: break in 7th line (counting down) below and to left of I of AUSTRALIA (line sometimes only thinned).
- (b) Head: small flaw in hair just to right of and above temple (sometimes inked out).

49. "EIGHT WATTLES" (at right):

Large almost circular flaw at foot of sixth bloom (somewhat variable and considerably reduced in some printings).

54. Two flaws:

- (a) Right frame: cut 4.5mm. from bottom by scratch passing diagonally downwards till it cuts edge of value shield just above level of tail of figure 2.
- (b) Right frame: diagonal break in opposite direction 3.0mm. from bottom (not in multiple printings). Neither flaw occurs in multiple and early single printings.

58. **Left wattle spray:** small break at ten o'clock in lowest bloom with right end of a shading line missing at the same point.

60. **Left frame:** break opposite lowest wattle leaf and 8.75mm. from top (not in multiple and early green single printings).

ELECTRO VIII

(LOWER MEMBER OF 4th SET)

NOTES

MANUFACTURE, watermarks and colours are the same as for electro VII, with which this electro was used in pair as the lower member. The one-line imprint may be distinguished from that of electro VII by a small flaw at the right lower part of the second O of COMMONWEALTH, giving it the appearance of a Q. The two-line imprint has no stop after PRINTER.

There are again no special characteristics.

CHECK LIST—LEFT PANE

1. Two flaws:

(a) Left frame: break pointing diagonally upwards to right, 3.5mm. from bottom, in heavily inked copies shows as a blunt notch (not in some green printings and never in orange printings).

(b) Left frame: notch on inner side, 5.5 mm. from top.

3. **Right frame:** narrow diagonal break downwards from left to right, 9.5mm. from top (not in multiple printings).

5. Four flaws:

(a) Left wattle spray: small portion missing of leaflet adjacent to lowest bloom at eight o'clock.

(b) Kangaroo: heart-shaped flaw on upper part of hip.

(c) Kangaroo: white mark normally present on forepart of right leg is more extensive than usual.

(d) Shading on head: break at centre of 8th line (counting back) on forehead (occasionally over-inked).

9. **Right value shield:** 14th shading line (counting up) adjacent to right side broken and ending in small spot of colour.

10. **Left frame:** small notch 1.5mm. below upper corner (not in multiple printings).

21. **Lower point at right:** almost circular colour flaw, 0.5mm. across, partly in shading and partly in white margin; smaller colour flaw from the upper portion of the curve of the frame almost joins the larger flaw (both exist in the above state only in early printings, in later printings only slight traces remain).

30. **Right value shield:** 1st shading line above top right corner missing for most of its length at left.

33. Two flaws:

(a) Shading between emu's legs: right ends missing of top four lines where they should join front of emu's left leg.

(b) Left value shield: the figure 2 has a crest or horn going perpendicularly upwards to join the fraction bar

above, with distortion of the bar in some cases (known only in some multiple printings).

38. **Value tablet:** minute notch upwards below space between E and N of HALF-PENNY.

44. **Left lower corner:** broken away to point of inner white margin.

49. RETOUCH and two flaws:

(a) Shading in oval: darkened and blurred shading in front of mouth with about six irregular white lines.

(b) Shading in oval: shortening of left end of 15th line (counting down) where it should meet back of head.

(c) Head: blurred flaw 2.0mm. above and slightly to right of top of ear.

(b) and (c) are very variable and are invisible in some copies of all printings.

50. **Shading at right of right value shield:** shortening of end of 15th line (counting up) where it should meet shield.

52. **Left value shield:** small colour spot in point of figure 2.

53. **Right frame:** narrow notch with rounded end cutting halfway through from inner side 0.75mm. above point of lower inward curve.

55. **Kangaroo:** small white mark on forepaw.



VIII L 44



VIII L 49 (a, b & c)

56. **Head:** spot just below right end of parting.

57. **Two flaws:**

(a) Kangaroo: comet-shaped scratch for 1.0mm. on rump, the head pointing down.

(b) Shading below left wattle spray: breaks or weaknesses in 2nd and 3rd lines (counting down) immediately below stem.

58. **Shading behind emu:** narrow break near right end of 10th full-length line (counting up) behind back.

60. **Right frame:** 0.5mm. circular spot commencing 2.0mm. from top.

RIGHT PANE

4. **DISTORTED SHIELD (at right) and two flaws (two states):**

1st state: Multiple printings and early green single printings.

(a) White margin of right value shield: distorted for whole of upper portion at right.

(b) Shading at left of crown: break at centre of shortest line.

2nd state: Later green single and orange printings.

(a) and (b) as above.

(c) Shading on head: mark pointing diagonally downwards from right to left through three lines of shading immediately in front of ear.

6. **Head:** small spot at bottom of beard, 1.0 mm. to right of point.

7. **"BROKEN FRAME" (left):**

Left frame: break 2.0mm. wide, beginning 8.0mm. from top and extending through shading well into lowest wattle leaf (not in multiple and early green single printings).

9. **Kangaroo:** blurred white spot over foot.

12. **Right wattle spray:** blurred flaw in fourth bloom covering area between three and five o'clock, accompanied by a further flaw in left upper portion of leaf below (not in early multiple printings).

13. **Two flaws (two states):**

1st state: Multiple and early green single printings.

(a) Head: oval flaw cutting edge of ear and two lines of shading behind lobe.

2nd state: Later green single and orange printings.

(a) As above.

(b) Shading above emu's back: broad diagonal cut through right portions of first two full-length lines.

19. **Left wattle spray:** diagonal line, 2.0mm. long on left centre leaf. The line is below and almost parallel with the centre of the leaf (not in multiple and early green single printings).

24. **Shading behind kangaroo's head:** fairly extensive flaw caused by breaks in three shading lines and the adjacent small leaves.

28. **Right frame:** deep cut with break immediately below, beginning 5.5mm. from lower

corner. The cut is 0.5mm. wide and 0.5 mm. deep and rectangular in shape, its direction being diagonally upwards (not in multiple printings).

33. **Left value shield:** diagonal scratch extending upwards from a point on the inside of the left frame 2.5mm. from lower corner to immediately below leg of P of POSTAGE (sometimes scratch cuts completely through left frame).

34. **HALFPENNY:** grave accent on P (not in multiple printings).

40. **Two flaws:**

(a) Shading in oval: diagonal scratch, 2.0mm. long, downwards from right to left in front of forehead.

(b) Shading at left of left value shield: colour spot joining 10th and 11th lines (counting up).

45. **"EIGHT WATTLES" RETOUCH at right (two states):**

1st state: Early multiple printings.

Right wattle spray: dark patch between fifth and sixth blooms.

2nd state: Later multiple printings and single printings (green and orange).

Right wattle spray: white gash joins fifth and sixth blooms.

49. **White margin at left:** coloured line, 0.5 mm. long, beginning 4.5mm. from bottom of stamp (only in late orange printings).

52. **"EIGHT WATTLES" RETOUCH at right (two states):**

1st state: Early multiple printings.

Shading below wattle spray: darkening of shading below fifth and sixth blooms resulting from retouch of scratch, 1.5 mm. long, stretching from above L of AUSTRALIA to top of lowest bloom.

2nd state: Later multiple printings and single printings (green and orange):

Shading below wattle spray: white gash in middle of darkened area.

53. **Three flaws:**

(a) Top frame: small notch on inner side, 1.0mm. from right end.

(b) Right frame: notch at emu's tail, 9.5 mm. from bottom.

(c) Head: perpendicular mark, 0.5mm. long, in hair, 2.0mm. above and to right of top of ear.

54. **Two flaws:**

(a) Shading at left of crown: three lines immediately to left of head-band are shortened at right.

(b) Shading at right of crown: break in 14th line (counting down), 0.75mm. from right side of crown.

58. **Two flaws (two states):**

1st state: Multiple and early green single printings.

(a) Lower left corner shaved off; more is missing from the lower frame than from the left frame.

2nd state: Later green single printings and orange printings.



VIII R 4 (a)



VIII R 4 (c)



VIII R 7



VIII R 12



VIII R 13 (a)



VIII R 19



VIII R 24



VIII R 28



VIII R 33



VIII R 45
(2nd state)



VIII R 52
(2nd state)



VIII R 55
(a) & (b)

RIGHT PANE



VIII R 59
(2nd state)

- (a) As before.
- (b) Left valve shield: tail of figure 2 deformed by small white flaw which increases in late green printings to unite with curve of figure 2 above, leaving one small spot of colour between.

59. RETOUCH (two states):

1st state: Early multiple printings.

Head: back of ear and hair behind retouched, showing as a dark patch.

2nd state: Later multiple, green and orange single printings.

The dark patch has a blurred white gash in the middle.

60. Crown: small horizontal cut from left into cross, leaving spot of colour at point of top left corner.

UNPOSITIONED CONSTANT FLAWS

(ELECTROS V, VI, VII & VIII)

IT is possible that some of these flaws found only on the single watermark paper are in fact from one of the first three electros. In no instance, however, have we a copy dated 1915, and we have therefore included them provisionally in the following list.

CHECK LIST

B1. Two flaws:

- (a) Left frame: break, 5.25mm. from top.
- (b) Shading round left value shield: variable colour flaws at left, below, and at right; one joins 3rd and 4th lines (counting down) at left of upper left corner; others join 2nd to 7th lines (counting up) below and to left of lower left corner; and another joins the 6th and 7th lines immediately to right of right lower corner (variable and intermittent). (Single watermark.)

B2. Top frame: upper side thinned downwards for 1.0mm. beginning 5.0mm. from left corner; the frame bulges up slightly immediately before the thinning starts (single watermark).

B3. Shading in oval: break 0.5mm. wide at centre of 25th line (counting up) behind head (single watermark).

B4. Shading at right of crown: top line broken just to left of centre (single and multiple watermarks).

B5. Right wattle spray: lower right portion of second bloom shows absence of some of the colour normally present below (multiple watermark).



B 5

B6. Upper frame: developing flaw 1.75mm. to left of crown beginning as notch, developing into break which finally grows until it involves two shading lines immediately below (probably multiple watermark only).

B7. POSTAGE: oval flaw, 0.75mm. long, upwards from outer white oval towards the foot of S which it nearly joins (single and multiple watermarks).

B8. Upper frame: colour flaw, 0.5mm. long, upwards from frame commencing 4.5mm. to right of crown (multiple watermark).

B9. Right frame: notch, 0.75mm. wide, on outer side of frame beginning 2.0mm. from upper corner. In some copies it almost breaks through the frame (multiple watermark).

B10. White margin at right: thin colour line through margin, 2.0mm. from lower side of lower frame (single watermark).

B11. CRACKED ELECTRO:

Left wattle spray and AUSTRALIA: horizontal line, 11.0mm. long, beginning at inward projection of frame, traversing adjacent wattle leaf and spray, cutting coloured oval above U, through centre of S, below TR and ending at left foot of second A (single watermark).

B12. Left wattle spray: irregular flaw removing inner portion of two upper leaflets at under side of leaf, projecting between second and fourth blooms (single watermark).

B13. Right frame: notch on outer side, 3.75 mm. from lower corner (multiple watermark).

B14. Shading in oval: somewhat blurred spot, 0.75mm. long, immediately above tip of nose, which it almost joins (single watermark).

B15. Right white margin: small colour flaw projecting from inner side of frame 3.75mm. from lower corner and filling, or nearly filling, white margin.

B16. Shading in oval: spot caused by shortening of left end of 9th line (counting up) above top serif of P of POSTAGE (single watermark).



B 11



B 14



B 16

ELECTRO IX

(UPPER MEMBER OF 5th SET)

NOTES

THE history of this electro (together with its companion X) is more complicated than that of any of the others. It was made by T. S. Harrison without marginal (or jubilee) lines and first appeared with his two-line imprint, on single watermark paper, early in 1924. Mullett sheets first appeared in March 1927: all were printed on small multiple watermark paper, perforated 14, the Mullett imprint being substituted for that of Harrison. The next change was the issue of Ash's first printing, in November 1928, again on paper watermarked with the small multiple watermark but perforated $13\frac{1}{2} \times 12\frac{1}{2}$, and with Ash's two-line imprint. The fourth and final change took place in July 1932 with the use of paper watermarked C of A, perforation and imprint remaining unchanged.

In 1929 extensive repairs were carried out, but, nevertheless, some of the conspicuous flaws remained unchanged. These repairs were not all made at the same time, at least three states of this electro being known to us. It will be necessary to study many more sheets before it can be established in which order the repairs were made.

This electro is peculiar in that there are many abnormal crown tops and also an almost identical flaw on twelve of the clichés. This flaw takes the form of a spot of colour in the shading above the I of AUSTRALIA joining the outer coloured oval to the adjacent wattle leaflet. It was discovered by one of us (A.W.R.) and described in Gibbons' Stamp Monthly (1957, XXXI, 7) as a secondary state of the die to be designated Die Ia. The clichés on which this flaw occurs are as follows (those having other individually identifiable flaws being underlined):

Left pane	<u>13</u>	<u>16</u>	18	30	<u>34</u>	45
Right pane	<u>2</u>	26	33	<u>35</u>	37	<u>50</u>

The scattering of these identical clichés shows not only that they must have been consecutively struck from the die, but also that they must have been in the form of separate units which subsequently became shuffled among others showing the normal state of the die. (Proof that Harrison continued the same method of plate and electro manufacture as Cooke.)

The cause of this secondary state is comparable with that resulting in the so-called Die II of the penny value, in which a sliver of metal split progressively away and eventually fell from the transfer roller. In the halfpenny value a piece of foreign matter, possibly a loose flake of metal picked up from the last cliché struck prior to striking the 12 Die Ia's, became attached to the die (in this case flat), and remained there for 12 strikes, finally falling off and leaving the die in its normal state. Alternatively these 12 clichés may actually have been the last 12 to be struck.

CHECK LIST—LEFT PANE

2. "EIGHT WATTLES" RETOUCH and two flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- Left wattle spray: extensively damaged at upper left; there is a large circular outlined flaw between first and third blooms removing the upper portion of the corner leaf and considerably altering shading above. Also small flaw immediately above corner leaf and another to left of top bloom removing outline of bloom and parts of adjacent shading lines.
- Oval: break, often 0.5mm. wide, in 11th shading line (counting up) below point of beard.
- Left value shield: small oval spot between fraction bar and figure 2, slightly above level of base of 2.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- Left wattle spray: almost normal, but darker than usual.
Left frame: shallow depression on outer side of upper 3.5mm., sometimes with bulging of inner side of frame and consequent thinning of inner white margin (in C of A printings the depression is sometimes visible, but usually the frame is normal).
- Normal.
- Occasionally present.

4. Lower frame: notch 2.5mm. from left corner (returned to normal during $13\frac{1}{2} \times 12\frac{1}{2}$ printings).

5. Three flaws:

- Upper frame: break 3.5mm. from right corner (often invisible).
- Lower frame: coloured spur to right of left point just to left of H of HALFPENNY.
- Value tablet: break in 5th shading line (counting up) just to right of tablet.

6. Lower right margin: point prolonged downwards (only known in SMW printings with both perforations).

7. "CUT IN RIGHT WATTLES" (two states):

1st state: Single and SMW (14) printings.
Right wattle spray: gash downwards and outwards through fourth bloom (not known in early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).

2nd state: SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

RETOUCH: the fourth bloom is now abnormally dark with a faint broken white line replacing the gash.

10. Upper frame: break 3.0mm. from left

- corner with slight turning up of frame at right of break (returned to normal in $13\frac{1}{2} \times 12\frac{1}{2}$ printings).
- 11. Two flaws (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) Oval: round spot in front of eyebrow but nearer to oval border.
 (b) Left value shield: small spot under left serif of figure 1.
 (c) Crown: abnormal cross, the central third being raised to a rounded lump with a white dot immediately below.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$), and C of A printings.
 (a) and (c) no longer present; (b) as before.
- 12. Two flaws:**
 (a) Right value shield: notch almost severing lower outer coloured frame in direct line with fraction bar.
 (b) Shading at left of left value shield: colour flaw joining left ends of two lines just above upper left corner of shield.
- 13. Die Ia and flaw:**
 Left frame: break 9.0mm. from lower corner.
- 15. Two flaws:**
 (a) Crown: cross blunted at left.
 (b) Shading at right of left value shield: top three lines shorter and/or fainter than normal.
- 16. Die Ia and flaw:**
 Value tablet: outward notch to right from foot of second N of HALFPENNY.
- 17. Three flaws:**
 (a) Kangaroo: flaw against back and immediately above rump caused by the absence or weakening of the right ends of the 20th and 21st shading lines (counting up) where they should join back (variable in intensity).
 (b) Crown: upper left corner blunted.
 (c) Head: break or weakening in shading line midway between top of ear and corner of eye (intermittent).
- 18. Die Ia.**
- 21. Two states:**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 Crown: top broken away to form a bridge over two small points with the right corner missing.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 RETOUCH to crown: results in thickening of outline of cross, which now appears in reduced form with a white spot at centre and about a quarter missing at right.
- 23. Two states:**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 Crown: right corner of cross broken off.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 RETOUCH: cross now stunted.
- 24. "DENT IN UPPER FRAME" and flaw (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) Upper frame: shaved downwards 0.5 mm. deep for 2.0mm., beginning 2.5 mm. from left corner.
 (b) Upper right corner: blunted.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 (a) RETOUCH: broader white margin over left wattle spray resulting from shortening at left ends of two shading lines, frame above almost normal but still somewhat thinner.
 (b) Unchanged.
- 25. Shading behind kangaroo:** colour flaw covering 12th, 13th and 14th lines (counting up)—(probably transient: known only in early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
- 26. Two flaws:**
 (a) Shading in oval: small spot of colour in front of emu's breast. The spot is almost at the right ends of the 23rd and 24th lines (counting up) which it joins together.
 (b) Crown: top distorted with left corner blunted and remainder darker than normal (variable).
- 27. Two flaws:**
 (a) Lower frame: blurred marks 1.0 to 2.0mm. from right corner.
 (b) Lower frame: angular notch 3.0mm. from left corner.
 (Both flaws are somewhat variable.)
- 29. Left frame:** flaw varying from diagonal line to dot 1.5mm. from lower corner.
- 30. Die Ia.**
- 32. "NO TOP TO CROWN":**
 Crown top shaved off almost level with frame (returned to normal during $13\frac{1}{2} \times 12\frac{1}{2}$ printings).
- 33. Right value shield:** colour spot near top of left white border.
- 34. Die Ia and flaw:**
 Emu: two small spots on upper part of tail (very faint in some printings).
- 36. Right wattle spray:** two contiguous blobs of colour to right of tip of second leaflet (counting up) at right of stem.
- 39. Two flaws:**
 (a) Emu: small dot below front of breast almost touching white segment of medallion frame.
 (b) Shading behind kangaroo: colour spot joining middle of 5th and 6th lines (counting down) below left wattle stem.
- 40. Head:** horizontal scratch, 0.5mm. long, 1.25mm. above top of ear.
- 41. Shading at right of crown:** variable flaw caused by absence of left ends of 14th and 15th lines (counting up), and usually also by a notch into the crown itself.
- 44. "DOT BEFORE TWO" and second flaw:**
 (a) Left value shield: blotch before and slightly below point of figure 2.
 (b) Shading below left value shield: lines immediately to left of point of shield are weak or partially absent.
 (Both flaws vary in intensity and are sometimes absent.)
- 45. Die Ia.**



Die I A

LEFT PANE



IX L 2(a)
(1st state)



IX L 7
(1st state)



IX L 7
(2nd state)



IX L 24 (a)
(1st state)



IX L 24(a)
(2nd state)



IX L 44 (a) & (b)



IX L 49
(a), (b) & (c)



IX L 60 (c)

49. Three flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Kangaroo: irregular flaw on and to right of shoulder.
- (b) Kangaroo: flaw between ears caused by almost complete absence of two shading lines.
- (c) AUSTRALIA: small linear mark below and parallel to base of left leg of first A.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) and (b) almost normal.
- (c) As before.

56. Lower frame: small blunt notch 3.5mm. from right corner (returned to normal during $13\frac{1}{2} \times 12\frac{1}{2}$ printings).

57. Emu: diagonal gash downwards from right to left for 1.0mm. on emu's back, just above tail and starting below last shading line.

59. Right value shield: tiny variable mark to left of foot of figure 1 (returned to normal during $13\frac{1}{2} \times 12\frac{1}{2}$ printings).

60. Three flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Lower right corner: small blunt notch.
- (b) Lower frame: two notches, one below

right leg of A, the other below leg of F, of HALFPENNY.

- (c) Left value shield: fraction bar thickened at lower end.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) and (b) not present.

(c) Very much reduced or completely absent except in some C of A printings when it appears almost in its original state (this variation is thought to be the result of differences in "make-ready").

RIGHT PANE

1. Three flaws (two states):

1st state: Single, SMW (14), SMW ($13\frac{1}{2} \times 12\frac{1}{2}$), and C of A printings.

- (a) Left frame: notch at bottom cutting through to point of inner white margin.

(b) Lower frame: thinning under Y of HALFPENNY.

(c) Upper left corner: abnormal—usually pointed owing to undercutting of left frame for 1.0mm. below, but sometimes showing definite notch.

2nd state: Some SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) and (c) unchanged; (b) develops into a break.

2. Die Ia and flaw:

Right frame: narrow perpendicular wedge-shaped flaw, point downwards, opposite upper corner of right value shield.

3. Right frame: damaged for 6.5mm.; notches on outer side 5.25mm. and 7.5mm. from top, and on inner side 9.0mm. and 11.0mm. from top, sometimes with an external bulge over the last notch.

4. Upper right corner: noticeably blunt and rounded.

5. Right value shield: irregular flaw behind top corner figure 2 (sometimes over-inked).

6. Shading behind emu: 3rd shortened line (counting down) behind back has a tiny break just to left of centre (often over-inked)

7. Crown: flaw over right leaf of left fleur-de-lis, small in some printings but joined to leaf in others.

8. Crown: top broken and jagged with spur pointing to left; easily confused with IX R 17 (returned to normal during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).

10. "CUT IN WATTLE" and two other flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Left wattle spray: perpendicular gash to left of top leaf, ending to right of centre of top bloom.

(b) Crown: top distorted, especially at right, with perpendicular downward break just to right of centre.

(c) Emu: break at centre of 5th shading line (counting up) between legs.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) and (c) unchanged; (b) returned to normal.

11. Upper frame: small round spot 1.25mm. from right corner just breaks through frame

at top (returned to normal during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).

12. "THICK ONE" and flaw (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Left value shield: blotches to right of and below figure 1; notch to left on upper portion of 1.

(b) Coloured oval: blurred spot 1.0mm. below kangaroo's paws (variable).

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) The figure 1 is appreciably thicker resulting in diminution of left upper and lower serifs; some of the original blotches still show faintly.

(b) As before, but usually very faint.

14. "NO TOP TO CROWN" and four flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Crown: top broken away completely with only a horizontal portion above.

(b) Upper frame: upper side shaved for 0.5 mm. just to right of crown.

(c) Top right corner of frame: variable marks.

(d) Upper frame: split between (b) and (c).

(e) Shading behind kangaroo: right end missing of 19th line (counting down) below wattle stem where it should join back, and small break in line immediately below.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) RETOUCH to crown: cross with horizontal white line inside and left quarter missing.

(b), (c) and (d) have been eliminated.

(e) As before.

15. Two states:

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

Crown: horizontal gash through three-quarters of cross starting at left and leaving parallel line above — in some printings not easily distinguishable from 14 (a).

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

Crown: horizontal line has now broken away leaving only two small upward projections in place of cross (returned to normal in still later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).

16. Three flaws:

- (a) Left wattle spray: small notch upwards into lower edge of left leaf just above point of white margin.

(b) Left value shield: white mark in outer frame opposite tail of figure 2 (very faint in later printings).

(c) Shading at right of left value shield: colour spot joining the two lines at right of right lower corner of shield

17. Two flaws:

- (a) Crown: upper left corner of cross notched with jagged point above and diagonal downward cut below.

(b) Shading at left of left value shield: blob of colour joining three lines immediately to left of left lower corner of shield.



IX R 7



IX R 10 (a) & (b)
(1st state)



IX R 12 (a)
(1st state)



IX R 12 (a)
(2nd state)



IX R 19 (a)



IX R 19 (b), (c), (d)



IX R 27

RIGHT PANE



IX R 60 (a), (b)

19. Four flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Left wattle spray: small marks normally present in centre of top left leaf considerably enlarged.
- (b) Left value shield: small horizontal mark at centre of right coloured margin.
- (c) Left value shield: small horizontal mark to right from outer curve of figure 2.
- (d) Left value shield: point of figure 2 prolonged downwards.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) and (d) as before; (b) and (c) eliminated.

22. Two flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Crown: top badly broken to form a bridge over two points.
- (b) Left wattle spray: small round dot in left middle leaf, level with centre of fifth bloom.

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) RETOUCH: appearance of top of crown improved but still appearing as line over two points, all three being somewhat thicker than before.
- (b) As before.

23. Three flaws:

- (a) Upper right corner of frame: small sharp nick.

- (b) Lower right corner of frame: spot at point of white margin.
- (c) Right frame: perpendicular mark, 1.5 mm. long, beginning 1.0mm. from lower corner (somewhat variable).
- (a) and (b) appear as blunt corners in some poor printings.
25. **Left frame:** clean break 4.5mm. from bottom (not present in single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
26. **Die Ia.**
27. **"EIGHT WATTLES":**
Right wattle spray: large flaw below fifth bloom caused by complete absence of two shading lines and the partial absence of the right ends of the two above (returned to normal during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
29. **Upper right corner:** notched with a fine split downwards for 0.75mm. at a distance of 0.25mm. from outer edge of frame (in some heavily inked, especially later, printings, shows only as a blunt corner).
30. **Shading above emu:** left end of 2nd full-length line (counting up) above back is thickened upwards and the left end of the line above is missing.
33. **Die Ia.**
35. **Die Ia and flaw:**
Shading above left wattle spray: break at left end of topmost line where it should join tip of top leaflet.
36. **Left frame:** small mark almost at point of white margin in lower left corner.
37. **Die Ia.**
41. **Two flaws:**
(a) White margin at left: widened at tip of kangaroo's tail and encroaches on tail and shading lines below.
(b) Right frame: variable marks in lower inward projection.
44. **POSTAGE:** right serif at base of T elongated downwards.
46. **Three flaws:**
(a) Right frame: top jagged with two dents (very variable and sometimes accompanied by mark or even split in frame adjacent and occasionally by a notch at the right end of the upper frame).
(b) Right frame: two parallel perpendicular lines in frame opposite upper inward projection.
(c) Lower white margin: small coloured projection upward from lower frame below upright limb of L of HALFPENNY.
47. **Shading in oval:** break at left centre of 18th line (counting down) behind head (sometimes over-inked).
48. **Shading in upper right corner:** colour spot joining the right ends of the 2nd, 3rd, and 4th lines (counting down).
50. **Die Ia and flaw:**
Lower white margin: colour flaw below and to the right of P of HALFPENNY (known only in SMW (14) and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
52. **Right value shield:** flaw in coloured frame 1.0mm. to left of point of shield.
53. **Two flaws (two states):**
1st state: Single, early SMW (14), and middle SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
(a) HALFPENNY: colour flaw through right leg of A just below top.
2nd state: Later SMW (14) and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
(a) As before.
(b) HALFPENNY: colour spot in left leg of A below crossbar.
Both flaws returned to normal during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
54. **Two flaws (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
Right frame: break 8.0mm. from top.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
RETOUCH: frame normal or with clear dent on inside of frame.
55. **Two flaws (two states):**
1st state: Single, SMW (14), early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
(a) Shading below left wattle spray: left end missing of line immediately above lowest leaf.
(b) Lower frame: broken below and slightly to left of point of right value shield.
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
(a) Unchanged, but (b) is normal.
56. **Two flaws:**
(a) Shading in oval: widening of left portion of space between two lines which join point of beard.
(b) Left value shield: blurred spot level with top of figure 1 and slightly nearer fraction bar.
After early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings both flaws are variable or non-existent.
59. **Three flaws:**
(a) Left frame: small notch 9.0mm. below upper corner.
(b) Left frame: wide shallow notch 11.5 mm. below upper corner.
(c) Left frame: broken for 0.5mm. beginning 13.75mm. from upper corner.
There are also other minor irregularities on the outer side of the frame. All flaws reduced during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings to only minor irregularities.
60. **NINE WATTLES (at right)**
(a) Shading at left of right wattle spray: large patch to left of spray caused by breaks in four shading lines and partial absence of the ends of the small leaves to left of fourth bloom.
(b) Shading at right of right wattle stem: wide break in two lines midway between right side of stem and white margin.
Both flaws vary considerably in extent, being completely absent in some printings.

ELECTRO X

(LOWER MEMBER OF 5th SET)

NOTES

MANUFACTURE, watermarks, perforation and dates of issue are the same as for electro IX, with which this electro was used in pair as the lower member. The imprint blocks from this electro can be identified by a prominent break in the upper frame line to the left of the crown on L 60. This flaw remains unchanged in all the printings.

There are no special features to be described.

CHECK LIST—LEFT PANE

1. **Left wattle spray:** flaw at left of third bloom at eight o'clock caused by complete absence of one shading line and missing right half of line above.

2. **Left frame:** damaged for 1.0mm. beginning 4.0mm. from bottom; the frame appears to have been broken with a portion pushed inwards into the white margin and to have been inexpertly repaired.

3. **Right frame:** small flaw usually running diagonally upwards from left to right 2.75 mm. from bottom; it sometimes breaks through the inner side of the frame.

5. **Lower frame:** narrow blunt-ended notch 2.25mm. from left corner.

7. **"THICK UPPER FRAME" (two states):**

1st state: Single, SMW (14), and early SMW (13½ x 12½) printings.

Upper right portion of stamp: RETOUCH by "bumping up" resulting in thickening upwards of upper frame for 5.0mm. from right corner and darkening of all shading lines and wattle spray below.

2nd state: Later SMW (13½ x 12½) and C of A printings.

Upper right portion of stamp: RETOUCH by recutting of previously affected portion. The upper frame is now shaved slightly downwards to the left of the corner, which is pointed upwards. The white margin below is wider than normal and the seven shading lines between the two wattle leaflets have all been recut leaving unequal spaces between. There has also been some slight recutting in places of the outline of the spray.

10. **Two flaws (two states):**

1st state: Single, SMW (14), and early SMW (13½ x 12½) printings.

(a) **Head:** oval flaw caused by breaks in three shading lines behind ear.

(b) **Shading at right of right wattle spray:** small colour flaw of variable size joining right ends of two, or sometimes three, lines at right of tip of lowest leaflet; the flaw usually encroaches slightly on the white margin.

2nd state: Later SMW (13½ x 12½) and C of A printings.

(a) Normal. (b) As before.

12. **Lower frame:** colour spot upwards from frame below right leg of A of HALFPENNY almost cutting through white margin.

13. **Two flaws:**

(a) **Shading at left of right value shield:** colour spot joining 5th and 6th lines (counting down).

(b) **Left value shield:** horizontal cut from left to right through three-quarters of outer frame just above level of tail of figure 2 (frequently faint or inked out).

14. **Shading in oval:** small diagonal break through two lines in front of and slightly below lower lip (not present in single or SMW (14) printings).

19. **Head:** small perpendicular cut in outline of back of head just above the point at which the hair begins.

20. **"SPUR ON LEFT VALUE SHIELD":** Left value shield: diagonal cut from level of foot of figure 1 upwards and outwards through coloured left frame.

22. **Two flaws (two states):**

1st state: Single and early SMW (14) printings.

(a) **Left value shield:** dot adjoining left margin at a level halfway between base of figure 1 and lower end of fraction bar.

2nd state: Later SMW (14), SMW (13½ x 12½), and C of A printings.

(a) As before.

(b) **Left frame:** small mark, usually horizontal, in centre of frame 2.25mm. from bottom (sometimes over-inked).

23. **Shading at left of left value shield:** left end missing of 16th line (counting up).

26. **Upper frame:** oval spot, 0.5mm. long, 2.0 mm. from left corner (sometimes rather blurred).

30. **Right frame:** break through bottom to point of inner white margin.

31. **Left value shield:** slightly curved scratch beginning at white margin to left of and slightly higher than left lower serif of figure 1 and ending on fraction bar 0.75mm. from lower end.

33. **Left value shield:** large spot under left serif of figure 1 (very faint in C of A printings).

37. **Two flaws (three states):**

1st state: Single and early SMW (14) printings.

(a) **Shading on neck:** break at centre of 4th line (counting inwards from back).

2nd state: Later SMW (14) and early SMW (13½ x 12½) printings.



X L 2, 20 & 33



X L 7 (1st state)



X L 7 (2nd state)



X L 14

LEFT PANE



X L 30



X L 37 (b)

- (a) As before.
 (b) Left frame: break, 0.5mm. wide, at top going through to point of inner white margin
- 3rd state:** Later SMW (13½ x 12½) and C of A printings.
- (a) As before; and (b) almost normal.
- 38. Left frame:** small spot near outer edge 2.25mm. from top (variable in size and may break through frame).
- 43. Left frame:** narrow notch on inside of frame 5.75mm. from bottom.
- 45. Two flaws:**
 (a) Lower frame: small blunt notch 0.5mm. from right corner.
 (b) Lower frame: blurred mark for 0.5mm. commencing 1.0mm. from left corner (often very faint).
- 46. Shading above third bloom of right wattle spray:** break in line immediately above bloom.
- 47. Left wattle spray:** small flaw at two o'clock of fifth bloom.
- 51. Two flaws:**
 (a) Shading at right of crown: 2nd line (counting down) broken at its extreme right end.
 (b) Left value shield: small inward notch at left corner of coloured portion immediately below level of point of upper serif of figure 1.
- 52. Outer coloured oval:** colour flaw upwards for 0.5mm. over right limb of U of AUSTRALIA.

56. Shading at left lower corner of left value shield: 6th line (counting up) almost completely missing.

57. RETOUCH:

Shading below and to left of left value shield: five lines thickened and run together.

60. Upper frame: broken for 0.5mm. beginning 2.5mm. to left of crown.

RIGHT PANE—

- 1. Left frame:** small, almost perpendicular, mark on inner side beginning 1.5mm. from top (very variable); sometimes inked out and occasionally appearing only as a small spot.
- 2. Two flaws:**
 (a) Head: small spot on back of head level with lower leg of last A of AUSTRALIA (very variable and frequently inked out).
 (b) Upper frame: notch or small break 2.0 mm. to right of crown (very variable and frequently inked out).
- 3. Right frame:** irregular-shaped blurred mark 6.0mm. from bottom (very variable).
- 4. Two flaws:**
 (a) Head: colour spot on neck between the tops of the 4th and 5th shading lines (counting from left).
 (b) Shading in oval: hair line from kangaroo's paw curving down through eleven shading lines to a point over the P of POSTAGE (often over-inked).

5. **POSTAGE:** white line for 1.25mm. under G. This flaw increases to its maximum during the SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings, becoming rather faint in C of A printings.
6. **Two flaws (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) Upper frame: variable marks from point of right white margin for 2.0 mm. to left.
 (b) Emu: noticeable white spot on lower outline of breast where it should join front leg (often absent).
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 (a) **RETOUGH:** bumping up of right upper corner resulting in slight thickening of upper frame and right frame at top with a small but noticeable upward bulge of upper frame to left of corner. Shading lines and wattle spray below are also darkened.
 (b) As before.
8. **Outer white oval:** small flaw cutting through oval midway between emu's back and neck.
11. **Head:** colour flaw joining 10th and 11th shading lines (counting from back) 1.0mm. below ear.
12. **Shading below right wattle stem:** small break almost at right end of 3rd line (counting down).
14. **"EMU'S EGG":**
 Coloured oval band: prominent irregular-shaped flaw in angle between emu's breast and leg (returned to normal during SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
15. **RA JOINED and flaw (three states):**
1st state: Single and early SMW (14) printings.
 (a) **AUSTRALIA:** letters RA joined by variable blurred flaw at foot of letters.
 (b) Right wattle spray: small dot at left centre of upper leaflet at right of spray.
2nd state: Later SMW (14) and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) **RETOUCH TO RA JOINED:** blurred flaw has been removed and there is an accent over the letter R.
 (b) As before.
3rd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 (a) has returned to normal; (b) as before.
16. **Right wattle spray:** small mark in centre of lower part of upper right leaf.
17. **Lower frame:** small blurred mark 6.5mm. from right corner (found only in some SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
18. **Two flaws:**
 (a) Right frame: spot 1.5mm. from top.
 (b) Shading at right of right wattle spray: weakness of 9th, 10th and 11th lines (counting down)—variable in intensity.
21. **Head:** spot of colour on forehead between the tops of the 3rd and 4th shading lines (counting from left).
29. **Two flaws:**
 (a) **AUSTRALIA:** small spur diagonally upwards and outwards from centre of left leg of second A.
 (b) Shading in oval: colour spot joining 4th and 5th lines (counting up) above T of POSTAGE.
30. **Shading between emu's legs:** 6th and 7th lines (counting down) broken for 0.5mm. where they should join front leg (much reduced in some C of A printings).
34. **Shading behind emu:** break, 0.5mm. wide, in 8th line (counting down from wattle stem) behind neck, and shortening at left end of the same line.
37. **Two flaws (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) Left frame: break 13.0mm. from top often with colour spot in middle of break.
 (b) Shading behind kangaroo: break in centre of 15th line (counting down from wattle stem) adjacent to (a).
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 (a) No longer present; (b) as before.
38. **Kangaroo:** spot on throat (often overinked in C of A printings).
43. **Left wattle spray:** small flaw in leaf at two o'clock above sixth bloom.
47. **"SPORRAN ON KANGAROO," "EIGHT WATTLES" (left), "THIN FRACTION" (right), (two states):**
1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.
 (a) Left wattle spray: blurred flaw joining third and fourth blooms (very variable and often faint, probably the result of "make-ready").
 (b) Kangaroo: oval flaw, 0.75 x 0.5mm., on front leg (reduced in SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.
 (a) and (b) present but frequently very faint.
 (c) Right value shield: both figures thinned, the figure 1 more noticeably so.
51. **Two flaws:**
 (a) Left value shield: small dot to right of bottom of fraction bar (faint in some printings).
 (b) Head: break in outline of back of head opposite the point where the emu's neck joins the innermost oval.
52. **Right frame:** abnormally thin for upper 6.0mm. and somewhat ragged in parts on outer side (present in some SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings).
54. **Two flaws:**
 (a) Upper frame: small upward notch on inner side 2.0mm. from left corner (very faint in some printings).
 (b) Right wattle spray: small flaw on lower part of middle leaf at right.
55. **Left value shield:** small spot immediately to right of top of figure 1.
56. **Shading above emu's head:** left end missing of 4th line (counting up).



X R 5



X R 14



X R 15 (a)
(1st state)



X R 15 (a)
(2nd state)



X R 15 (b)



X R 47 (a)



X R 47 (b)



X R 47 (c)



X R 59 (a)
(1st state)

RIGHT PANE



X R 59 (a)
(2nd state)

59. "SPOT BEFORE TWO" and two other flaws (two states):

1st state: Single, SMW (14), and early SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) printings.

- (a) Left value shield: large spot in front of figure 2.
- (b) Left wattle spray: clearly defined flaw between third and fourth blooms.
- (c) Shading in oval: break in 2nd line (counting up) above right arm of T of POSTAGE (variable, some printings showing weakness at this point, others a normal line).

2nd state: Later SMW ($13\frac{1}{2} \times 12\frac{1}{2}$) and C of A printings.

- (a) RETOUCH to left value shield: the spot has been removed and the figure 2 has become appreciably thinner and its downward point sharper.

(b) and (c) unchanged.

60. Three flaws:

- (a) Inner white oval: small coloured line across oval joining lower portion of emu's breast to 20th line of shading in oval (counting up).
- (b) Shading in oval: small colour spot joining 25th and 26th lines (counting up) almost at their right ends.
- (c) Right lower corner: variable irregular horizontal mark in lower frame for up to 1.5mm, beginning 1.0mm. from right corner. This flaw is frequently invisible and the whole corner has the appearance of being retouched. The first appearance may be the result of light printing and the second of normal printing or "make-ready".

UNPOSITIONED CONSTANT FLAWS

(ELECTROS IX & X)

NOTES

SOME of the located flaws of electros IX and X vary in intensity, perhaps owing to the use of "make-ready". It is possible that the flaws listed below are often almost invisible for the same reason, and can therefore be located only in certain printings.

CHECK LIST

C1. **Shading at left of left value shield:** colour flaw joining 20th and 21st lines (counting up) for their whole length except extreme left.

Seen only in SMW ($13\frac{1}{2}$ x $12\frac{1}{2}$) printings.

C2. **Two flaws:**

(a) Shading at left of crown: long coloured flaw at narrowest portion between band of crown and adjacent wattle leaf joining two shading lines for their complete length and the next line above for its left half.

(b) Shading at left of crown: flaw joining right third of two shading lines at left corner of crown (diminishes and later disappears).

Both flaws seen only in SMW ($13\frac{1}{2}$ x $12\frac{1}{2}$) printings.

C3. **"EIGHT WATTLES"** (at left):

Left wattle spray: large circular flaw, 1.0 mm. in diameter, obliterating left three-quarters of topmost wattle leaf and adjacent shading lines. The flaw also extends upwards in a point notching the under side of the upper frame.

Seen only in single and SMW ($13\frac{1}{2}$ x $12\frac{1}{2}$) printings.



C 3



C 4

C4. **Kangaroo:** large variable blurred flaws on and below shoulder.
Seen only in SMW ($13\frac{1}{2}$ x $12\frac{1}{2}$) printings.

IDENTIFICATION KEY

THE flaw key which follows will enable the reader to identify quickly any stamp showing a constant flaw. Instead of having to search each page of the handbook before identification can be established, the use of the key will show all the possible alternatives at a glance, and reference to the text should then make identification positive.

The watermark and colour of the stamp may assist in the elimination of some of the possibilities, and the following list will be of assistance to those unfamiliar with this value.

Bright green and emerald shades; single watermark	I, II, III
Varying shades of green (usually dull); single watermark	V, VI, VII, VIII
Varying shades of green (usually dull); multiple watermark	V, VI, VII, VIII
Yellow-green (Harrison); single watermark	VII, VIII
Orange; single watermark	VII, VIII, IX, X
Orange; small multiple and C of A watermarks ...	IX, X

In this code the stamp is divided into 16 equal rectangles, and not to any specific measurements, which are more difficult to memorize. The first letter and number indicate the position of the flaw on the grid, and the following letters or symbols, its nature. Thus a notch on the outer side of the upper left corner is A1F:n; a similar flaw on the inner side of the same corner is A1M:n.

SYSTEM OF LETTERS & SYMBOLS

- A AUSTRALIA band from kangaroo's chest to emu's breast.
- B Bottom of stamp, outside frame.
- C Crown.
- E Emu.
- F Frame (outer side).
- G POSTAGE band from kangaroo's paw to emu's breast.
- H King's head.
- M Inner white margin surrounding stamp, inner side of frame, within frame
- O Sides of stamp outside frame at right and left.
- P Value tablet.
- R Kangaroo.
- S Shading lines (horizontal).
- T Top of stamp, outside frame.
- V Value shield border.
- V Value shield, inside border.
- W Wattle spray.

- + Cross on crown.
- Corner (only with F, M, and O).
- n Notch, nick, or break.
- r Retouch.
- s Side (frame or margin) as opposed to top or bottom
(only in A1, D1, A4, D4).
- Flaw extends to more than one position or type.

FLAW KEY



B

1

[F]	Fn	[Fn]	[Fr]	S	[S]	W	[W]	+
B	I VII B X	B	VI	I I I II III VIII VIII X C	II VII B	B	II VI	VI IX IX IX
	R L L		R	R R R L L R R L	R L		R L	L L L R
2	19 1 6 60	6	36	49 50 56 45 12 4 54 52 2	40 14 6	12	40 46	22 15 17 17

[+]	[+r]	C	[C]	A	[A]
II V V V VIII IX IX IX IX IX IX IX IX	IX IX IX IX	II II IX	I VII	III V V VII VII	I B
R L L L R L L L R R R R R	L L R R	R R R	L L	L L R L R	L
4 1 2 3 60 11 21 26 32 8 10 14 15 22	21 23 14 22	28 33 7	15 26	20 8 5 29 11	15 11

2

A	[A]	S	[S]	H	[H]	[Hr]
V IX	VI	III III VIII B IX	V	III V V VI VII VIII IX IX X	I III V V	VII
L L	L	L L R L	R	R L R L R L R L L R	R R L R	L
57 49	46	1 2 40 14 11	12	7 9 60 32 47 5 4 17 40 21	6 9 35 12	54

3

G	[G]	S	[S]	Sr	H	[H]	Hr
VI	II	II II VI VI VII VII B IX IX IX	VI X	VIII	V VII VIII X	I II III VI	V
R	R	L R L L L R	R R	L	L R R R	R R R R	R
24	35	31 53 16 57 58 14 16 2 56 14	26 4	49	34 10 6 4	6 27 9 26	16

4

Fn	[Fr]	M	[Mr]	Mn	G	[G]	P	[P]	[Pr]
I V VII IX	III	IX IX IX X	III	V VI	II V VI VII B	II VI	I II II II II II II V V V VI VII VIII IX	II V	III
L L R L	L	L R R L	L	L R	L L L R	R L	L L R R R R R R R R L R R R L R R	R L	L
53 43 1 60	59	5 46 50 12	59	13 49	9 38 37 28 7	35 47	18 25 8 9 24 35 36 48 33 5 34 13 6 34 53	30 22	59

V	[V]	V	S
IX	II A VI	I VII IX IX X	III V B IX IX IX
R	R L	R L R R L	L R L L R
19	48 5 47	5 60 16 19 13	16 5 1 5 15 16

