

DEPT.

KIDSGROVE

F.S.D. or Order No.

REPORT No.

A.C.E.D. Ref. No.

Deptl. Ref.

Date 12.8.63

Copies

TO:-

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- 1 Mr.G.D.Royle Manager F.E.S. "
- 1 Mr.R.H.Allmark, Computer Development *
- 12 KDF 9 Engineers.
- 35 Instruction Department "
- 1 Mr.A.B.Barnes London
- 1 Chief Engineers file.

Corrections to report No.K/GD.y.99
 "The KDF 9 MULTIPLIER - DIVIDER UNIT PART A"

Report by
 J.R.ELLISON

AP

Sheet No.5. first 9 lines should read:-

- 2 Inspect the least significant (ls) digit of M, and add M.D. into a third register PP (which initially contains zero), the number of times specified by the l.s. digit of M.
- 3 Shift M and P.P. one place right (l.s), losing the digit of M just inspected. Store the l.s. digit of P.P. in the m.s. digit position of M which was left empty when M was shifted right.
- 4 Finish when all digits of M have been inspected.

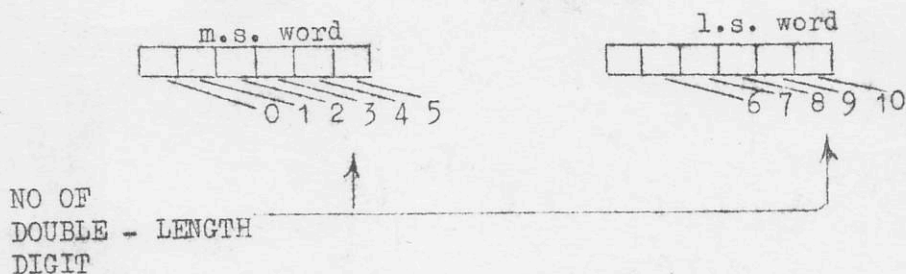
Sheet No.5 Example 2 add arrow below "M DIGIT INSPECTED" as:-

M DIGIT
INSPECTED

M = (203)

Sheet No.10 Para 3 line 6 should read "advantage, because the repeated additions during"

Sheet 17 upper drawing should be:-



Sheet No.21 Binary division example at bottom of page should start:-

$$011110 \div 000100 \quad (30 \div 4)$$

Sheet 25 Para 2 line 7 should read:-

recovery process would be required to determine Q. It

Sheet 32 line 1 should read:-

5.6 Recovery of R and Q

Sheet 33 Para 2 line 2 should read:-

stage "LAST M3 DIGIT" during transfer of M3 to C1, and

✓ Sheet 34 Sect. 5.10 line 6: 5

NS instead of MS

✓ Sheet 34 Sect. 5.11 line 4 $\frac{-Q}{-Q}$ instead of $-Q$

Sheet 37 line after flow diagram should read:-

✓ Q-1 is formed by adding the component parts of Q with a carry

Sheet A1.1 Equations for the addition of PS1 and C1 giving PS2 and C2 should read:-

$$PS2_n = C1_{n-1} \neq PS1_{n-1}$$

$$C2_n = C1_n \cdot PS1_n$$

$$\frac{PS2_n}{C1_{n-1}} = \frac{PS1_{n-1}}{C1_{n-1}} \neq PS1_{n-1}$$

$$\frac{C2_n}{C1_n} = \frac{C1_n}{C1_n} + \frac{PS1_n}{C1_n}$$

✓ Sheet A3.2 fourth line from bottom of page should read:-

$$| \text{New P.R.} | < 2 \times | \text{Dr MIN} |$$

Sheet A3.4 last heading should read:-

$$| \text{PR} | < 2 \times | \text{Dr} | \text{ is always true}$$

Capital letters have sometimes been used to abbreviate "most significant" and "least significant" these should always read "m.s." and "l.s"

The abbreviation "AV" has sometimes been wrongly used instead of "A.U" for "Arithmetic Unit".

e/R ELLMAN