January 26, 1976

Dear KIM-1 Customer:

Despite our best efforts to eliminate errors in the documentation
for your KIM-1 system, we have discovered a series of typographical errors
which should be corrected in your KIM-1 User Manual. The attached Errata
Sheet #1 should be used immediately to update your Manual since some of
the errors will interfere with your early attempts to demonstrate correct
system operation.

We will continue to advise you of any further errors or changes needed in your
documents. We actively seek your cooperation in advising us of any problems you
may discover in the system or its documentation.

Thank you,

MOS TECHNOLOGY, INC.
KIM-1 Customer Support

ea

ERRATA SHEET #1

Please modify your KIM-1 User Manual to correct the following typographical errors:

Page 11 - At the bottom of the page, add step
22A between steps #22 and #23 as follows:

Press Keys			See On Display	Step #
/+/	/0/	/3/	0001 03	22
/+/			0002 18	22A
/GO/			0005 xx	23

This correction insures that the program will begin
at the proper address (0002).

Page 14 - In the center of the page, in step #2 of the key
sequence, change the address to 17F5 (instead of 17F4).
The correct key sequence will now appear as:

Press Keys				See On Display	Step #
/AD/				xxxx xx	1
/1/	/7/	/F/	/5/	17F5 xx	2
/DA/	/0/	/0/		17F5 00	3
/+/	/0/	/0/		17F6 00	4
/+/	/1/	/0/		17F7 10	5
/+/	/0/	/0/		17F8 00	6
/+/	/0/	/1/		17F9 01	7
/AD/				17F9 01	8
/1/	/8/	/0/	/0/	1800 xx	9

Also, change the references in the third and fourth
sentences below the key sequence so that "17F4 and 17F5
(Steps 1 to 4)" now reads "17F5 and 17F6 (Steps 1 to 4)".
In the last two sentences on Page 14, change the references
to read:

" " " " " in locations 17F7 and 17F8 (Steps 5,6).
Finally, we pick an arbitrary ID as 01 and store
this value at location 17F9 (Step 7).

Page 15 - At the bottom of the page, in step #2 of the key
sequence, change the selected address to 00F9
(instead of 00F8). The correct key sequence will
now appear as:

Press Keys	See On Display	Step #
/AD/	xxxx xx	1
/1/ /7/ /F/ /9/	17F9 xx	2
/DA/	17F9 xx	3
/0/ /1/	17F9 01	4
/AD/	17F9 01	5
/1/ /8/ /7/ /3/	1873 xx	6
/GO/	(Dark)	7

Page 47 - At the top of the page, change the indicated data stored
at locations 00F4 and 00F5 as follows:

00F4   Y Index Register

00F5   X Index Register

Page E3 - In Figure E-1, in the lower figure showing 1 record,
add the * character in the blank box (after the area
designated "100 SYN").

March 1, 1976

Dear KIM-1 Customer:

The attached Errata Sheets are hopefully the last group of corrections required to eliminate errors in your KIM-1 User Manual. Please take the following actions:

Errata Sheet #2A - please discard the previously submitted Errata Sheet #2 and replace it with the new issue (#2A). Additional errors were discovered in the address and key sequences for the paper tape punch procedure.

Errata Sheet #3 - please mark your KIM-1 User Manual to indicate the new series of corrections contained in this sheet.

In general, if you have not already done so we recommend strongly that you use an appropriate colored felt tip pen to mark your KIM-1 User Manual in accord with all Errata Sheets. This has the twofold effect of insuring that you have noted each error and that you will have an updated document should you mislay the Errata Sheets.

Thank you,

MOS Technology, Inc.
KIM-1 Customer Support

ea

KIM-1
ERRATA SHEET #2A

Please modify your KIM-1 User Manual to correct the following errors:

Page 18 - In Figure 2.4, the line connected to Pin A-S should
be labelled "Keyboard Return" (not "Keyboard") and the
line connected to Pin A-T should be labelled "Keyboard"
(not "Keyboard Return").

Page 32 - In Figure 3.9, Pins U and T are reversed. Pin U should be
labelled "TTY PTR" (not "TTY KYBD") and Pin T should be
labelled "TTY KYBD" (not "TTY PTR").

Page 52, 53 - The key sequence for Punch Paper Tape is not correct
and should be replaced with the following sequence
and comments:

Type ① ⑦ Ⓕ ⑦ /SPACE/
See Printed 17F7 xx

Type Ⓕ Ⓕ ⊙
See Printed 17F8 xx

Type ⓪ ③ ⊙
See Printed 17F9 xx

Type ② ⓪ ⓪ /SPACE/
See Printed 0200 xx

You have loaded the ending address (03FF) into addresses
17F7 (EAL) and 17F8 (EAH). A starting address of 0200
is selected as shown.

3. Now Type Ⓠ
(continue as printed).

Page E-2 - In the 5th line from the top of the page, the reference
should be to the "311 comparator" (not "310 comparator").

Page E-3 - Correct Fig. E-1. All references to "µ Sec." should be
changed to M Sec. Also, correct figure to show "6 Pulses"
(not "9 Pulses") in the third section of each waveform.

· February 12, 1976

KIM-1

APPLICATION NOTE #1

A number of KIM-1 customers have reported difficulty in achieving correct results for the sample problem shown in Sec. 2.4 of the KIM-1 User Manual. In addition, some customers have experienced problems in recording or playback of audio cassettes. (Sec. 2.5 of the KIM-1 User Manual). In all cases, the problems have been traced to a single cause: the inadvertant setting of the decimal mode.

The 6502 Microprocessor Array used in the KIM-1 system is capable of operating in either a binary or decimal arithmetic mode. The programmer must be certain that the mode is selected correctly for the program to be executed. Since the system may be in either mode after initial power-on, a specific action is required to insure the selection of the correct mode.

Specifically, the results predicted for the sample problem (Sec. 2.4) are based on the assumption that the system is operating in the binary arithmetic mode. To insure that this is the case, insert the following key sequence prior to the key operations shown at the bottom of Page 11:

/AD/

/0/ /0/ /F/ /1/

/DA/   /0/ /0/

This sequence resets the decimal mode flag in the Status Register prior to the execution of the sample program.

The same key sequence may be inserted prior to the key operations shown on pages 14 and 15 for audio cassette recording and playback. These operations will not be performed correctly if the decimal mode is in effect.

In general, whenever a program is to be executed in response to the /GO/ key, the programmer should insure that the correct arithmetic mode has been set in the status register (00F1) prior to program execution.