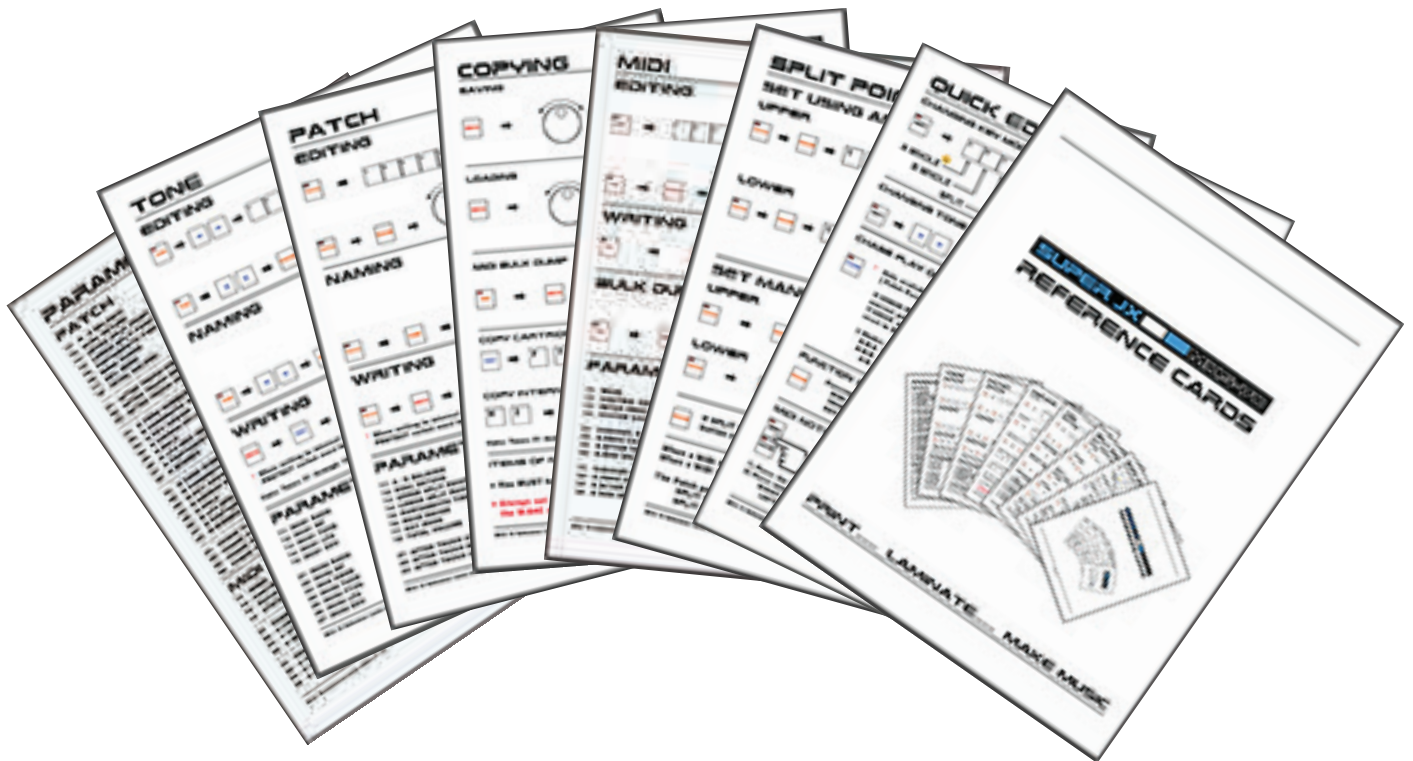
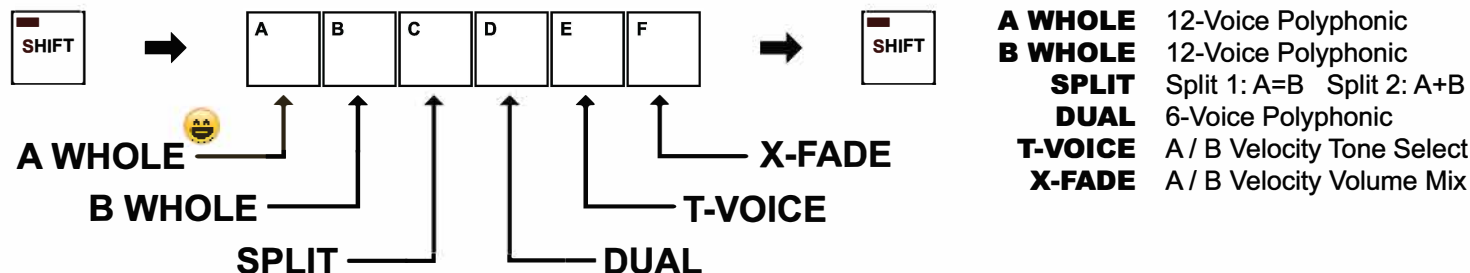

SUPER JX MKS-70

REFERENCE CARDS

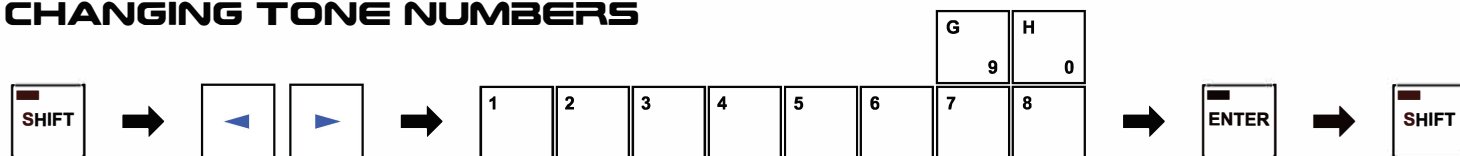


PRINT..... LAMINATE..... MAKE MUSIC

CHANGING KEY MODES



CHANGING TONE NUMBERS



CHASE PLAY OFF / ON*

CHASE

* Only available when a patch is set to DUAL mode [Patch Parameter 17 KEY MODE]

If CHASE PLAY is pressed and the KEY MODE for the current patch is set to A WHOLE, B WHOLE, SPLIT, T-VOICE or X-FADE, the KEY MODE setting will be reset to DUAL automatically

3 Modes - Patch Parameter [52 CHASE PLAY MODE]

- A-B-A** Tone A is played, then Tone B, then Tone A, & so on...
- A-B-B** Tone A is played first, then Tone B repeatedly
- A-B** Tone A is played first, then Tone B and then it stops

FUNCTION DISPLAY

PARAM

Pressing this button will cycle the display and show;
MIDI CHANNELS and **CONTROL CHANNELS**
tone NAMES used in the Patch currently selected
KEY MODE used in the Patch currently selected

MASTER TUNE

SET

MASTER TUNE

WRITE**

WRITE → **ENTER**

** The PROTECT switch on the front panel must be in the OFF position

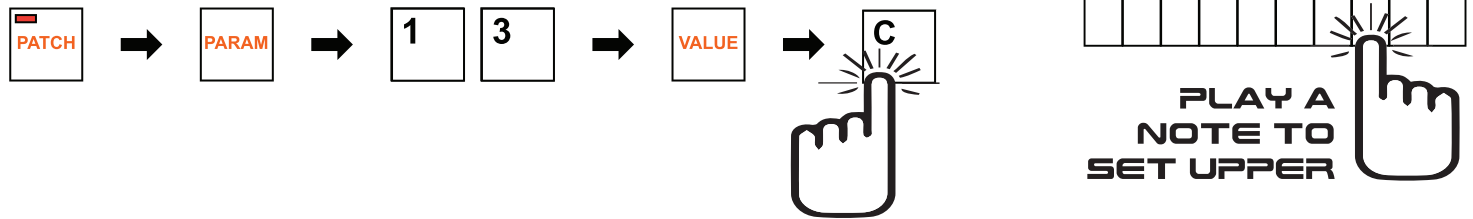
In case you were wondering... the factory default is 437 Hz

MIDI NOTE ON SIMULATION [For testing, if no external keyboard is available]

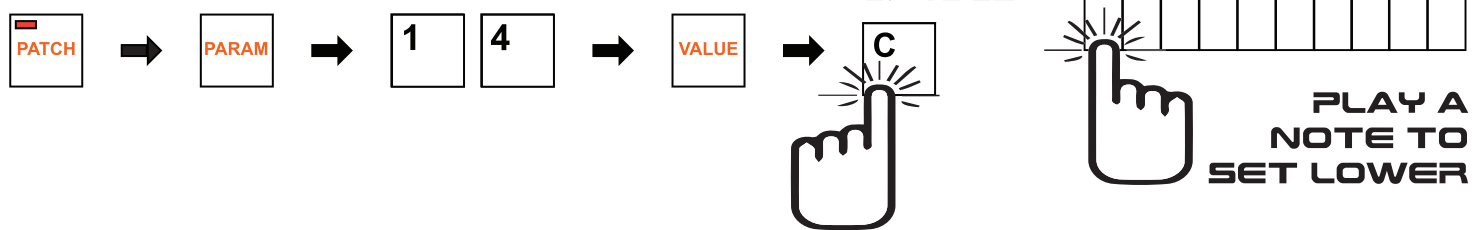
1) Press the SHIFT and ENTER keys simultaneously. LED's will light up
 2) Press number keys 1 through 8 to produce sound and a MIDI NOTE ON
RIGHT ARROW = +1 octave increments in pitch
LEFT ARROW = -1 octave increments in pitch

SET USING AN EXTERNAL KEYBOARD

UPPER

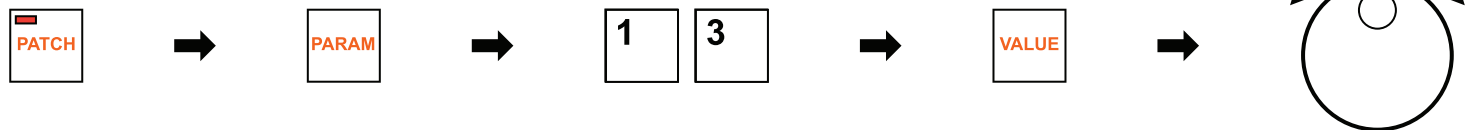


LOWER

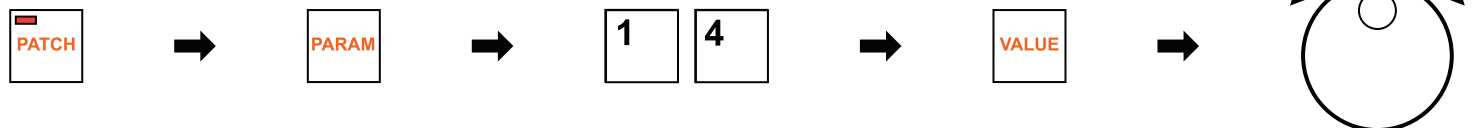


SET MANUALLY

UPPER



LOWER



PARAM If SPLIT 1 MODE is in use for the currently selected Patch, pressing the PARAM button cycles through the display and shows the Upper and Lower Split Points

When a MIDI NOTE ON is sent higher than the Upper Split Point, Tone A will play
 When a MIDI NOTE ON is sent lower than the Lower Split Point, Tone B will play

The Patch parameter [17 KEY MODE] will determine SPLIT 1 or SPLIT 2 MODE
SPLIT 1 MODE: Channels A and B are sent to the same MIDI channel number
SPLIT 2 MODE: Channels A and B are sent to different MIDI channel numbers

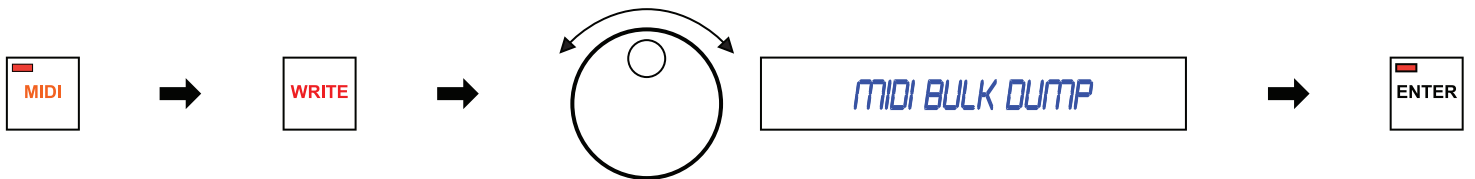
SAVING



LOADING



MIDI BULK DUMP



COPY CARTRIDGE PATCH F-7 TO INTERNAL PATCH C-1 (EXAMPLE)



COPY INTERNAL PATCH H-2 TO CARTRIDGE PATCH B-3 (EXAMPLE)

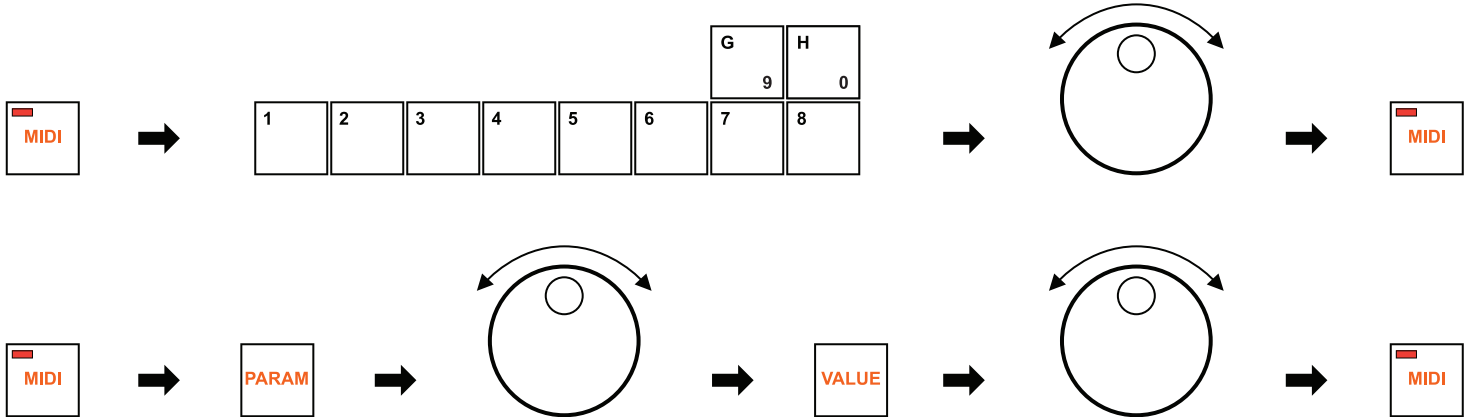


Note: Tones 51 through 100 are set permanently in ROM. You may only write to Tones 1 through 50.

ITEMS OF NOTE

- You **MUST** have an M-64C cartridge plugged in to save or load Patches via SysEx
- Always set the **PROTECT** switch to the "ON" position before inserting or removing the M-64C or M-16C cartridge into or out of the MKS-70

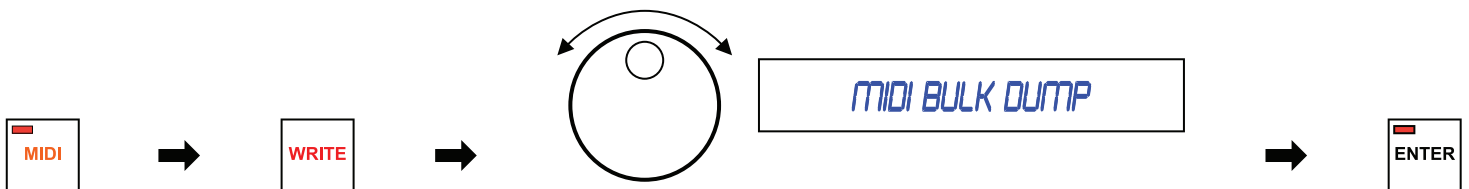
EDITING



WRITING



BULK DUMP



PARAMETERS

| | | |
|----|-------------------|-------------|
| 11 | MODE | MONO - POLY |
| 12 | CONTROL CHANNEL | 01 - 16 |
| 13 | PATCH PROG CHANGE | OFF - ON |
| 14 | SYSTEM EXCLUSIVE | OFF - ON |
| 21 | CHANNEL A | 01 - 16 |
| 22 | A PROG CHANGE | OFF - ON |
| 23 | A AFTER TOUCH | OFF - ON |
| 24 | A MIDI VOLUME | OFF - ON |
| 31 | CHANNEL B | 01 - 16 |
| 32 | B PROG CHANGE | OFF - ON |
| 33 | B AFTER TOUCH | OFF - ON |
| 34 | B MIDI VOLUME | OFF - ON |

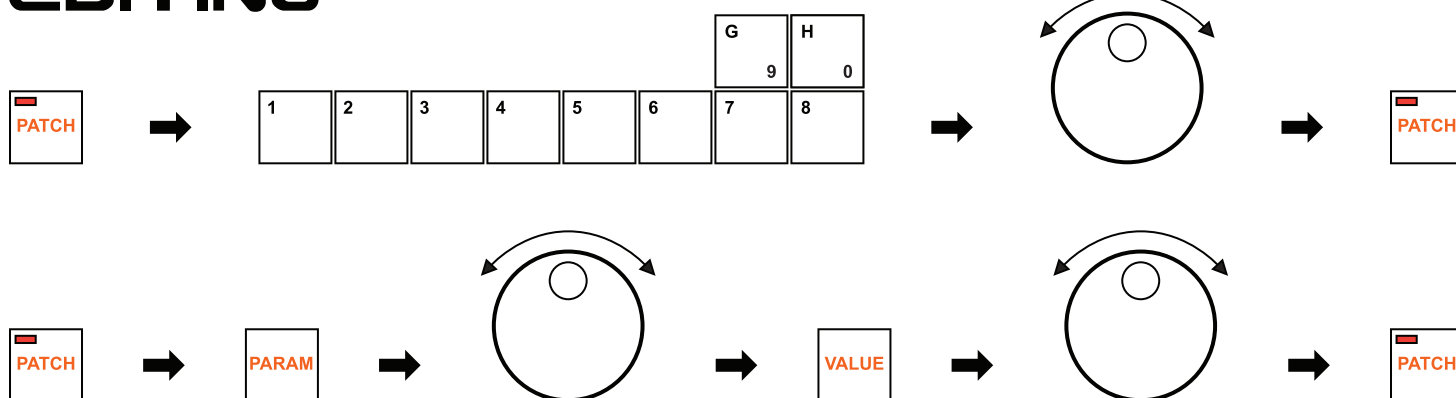
The most common MIDI communication errors are caused when the **SYSTEM EXCLUSIVE** parameter is turned OFF. If you are unable to send or receive MIDI messages to or from another device, set the parameter; **[14 SYSTEM EXCLUSIVE ON]**

Also, verify the MIDI channel is #1 and set the parameter; **[12 CONTROL CHANNEL 1]**

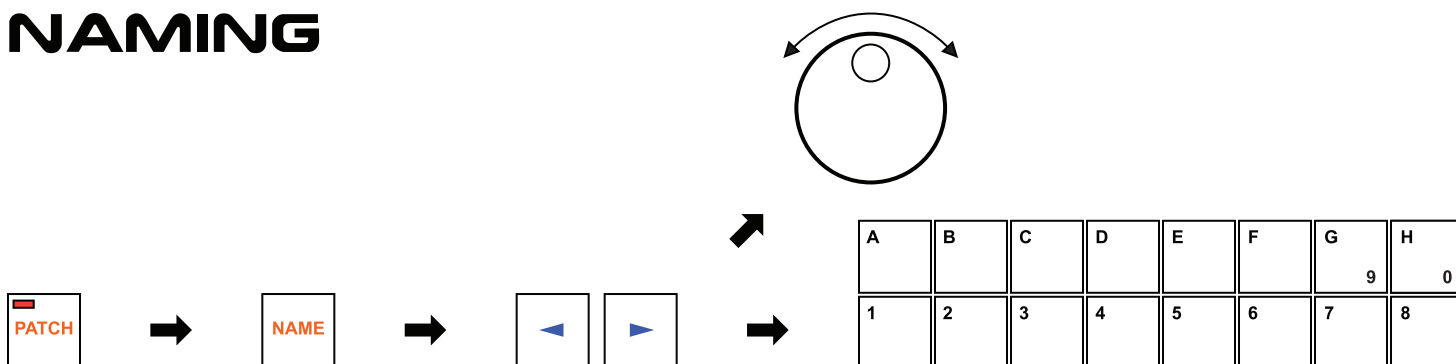
You **MUST** have an M-64C cartridge plugged in to save or load Patches via SysEx

Always set the PROTECT switch to the "ON" position before inserting or removing the M-64C or M-16C cartridge into or out of the MKS-70

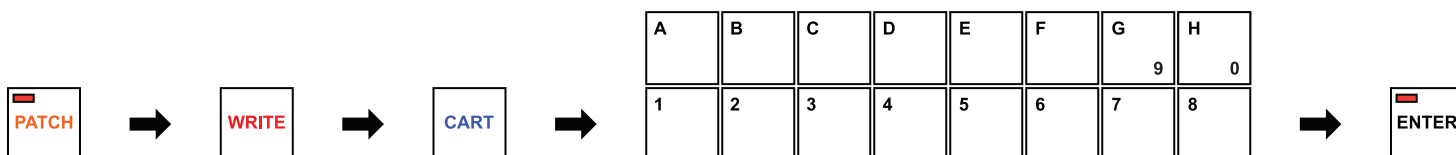
EDITING



NAMING



WRITING



* When writing to internal memory, the MKS-70 PROTECT switch must be in the OFF position

** When writing to cartridge memory, the M-64C PROTECT switch must be in the OFF position

PARAMETERS

11 A / B BALANCE
12 DUAL DETUNE
13 UPPER SPLIT POINT
14 LOWER SPLIT POINT
15 PORTAMENTO TIME
16 BEND RANGE
17 KEY MODE
18 TOTAL VOLUME

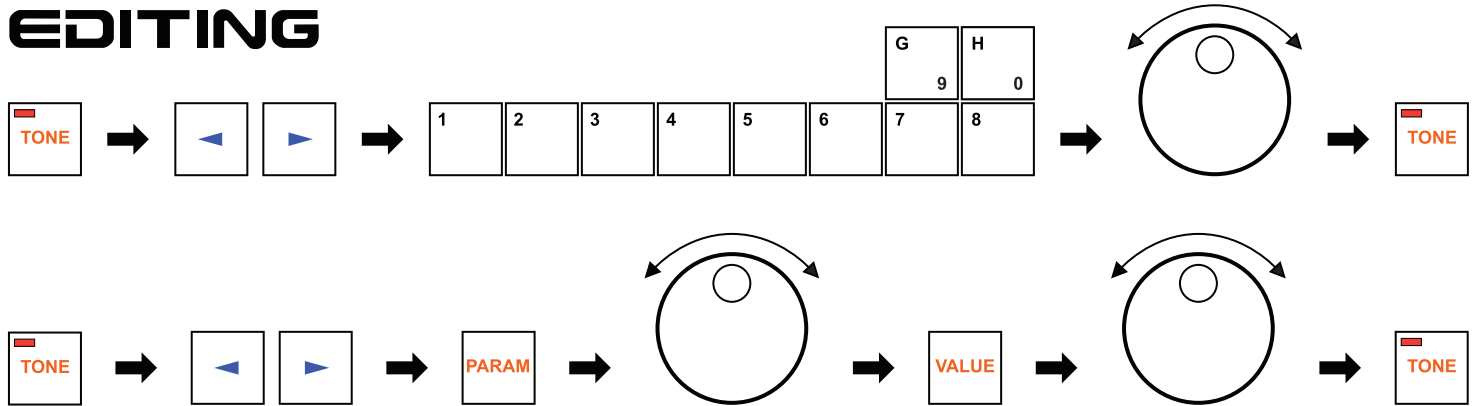
21 AFTER TOUCH VIB
22 AFTER TOUCH BRI
23 AFTER TOUCH VOL

31 A TONE NUMBER
32 A CHROMATIC SHIFT
33 A KEY ASSIGN
34 A UNISON DETUNE
35 A HOLD
36 A LFO MOD DEPTH
37 A PORTAMENTO
38 A BENDER
41 B TONE NUMBER

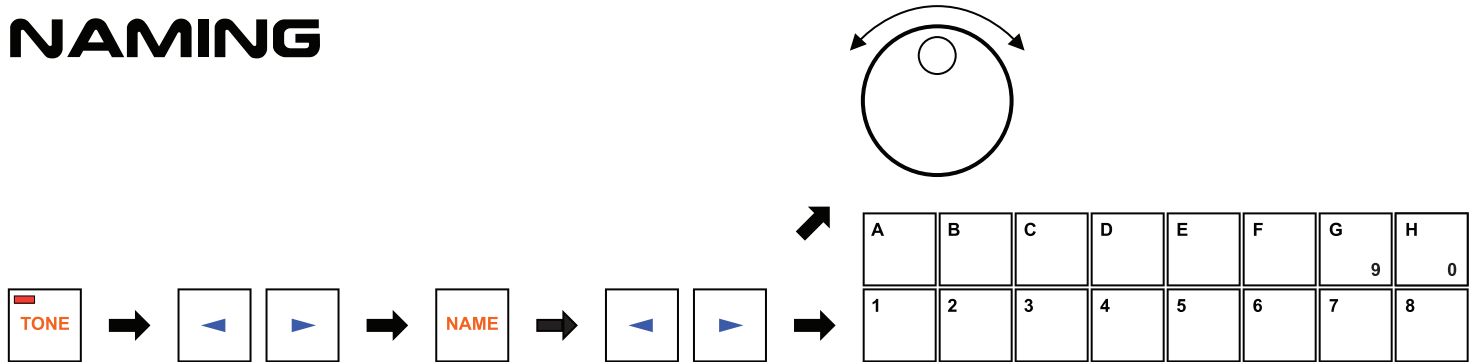
42 B CHROMATIC SHIFT
43 B KEY ASSIGN
44 B UNISON DETUNE
45 B HOLD
46 B LFO MOD DEPTH
47 B PORTAMENTO
48 B BENDER

51 CHASE PLAY LEVEL
52 CHASE PLAY MODE
53 CHASE PLAY TIME
54 CHASE PLAY SWITCH

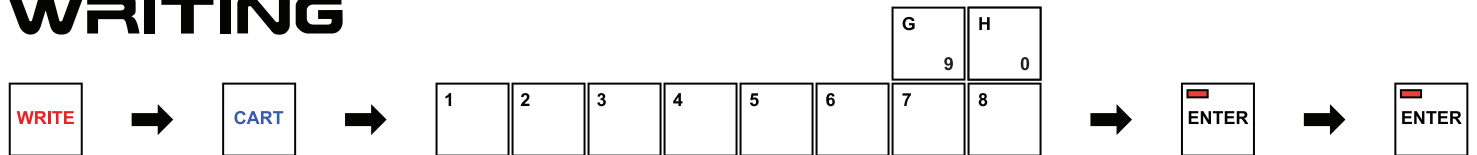
EDITING



NAMING



WRITING



* When writing to internal memory, the MKS-70 PROTECT switch must be in the OFF position

** When writing to cartridge memory, the M-64C PROTECT switch must be in the OFF position

Note: Tones 51 through 100 are set permanently in ROM. You may only write to Tones 1 through 50.

PARAMETERS

11 DCO1 RANG
12 DCO1 WF
13 DCO1 TUNE
14 DCO1 LFO
15 DCO1 ENV

31 DCO DYNA
32 DCO MODE

41 MIX DCO1
42 MIX DCO2
43 MIX ENV
44 MIX DYNA
45 MIX MODE

21 DCO2 RANG
22 DCO2 WF
23 DCO XMOD
24 DCO2 TUNE
25 DCO2 FTUN
26 DCO2 LFO
27 DCO2 ENV

51 HPF FREQ
52 VCF FREQ
53 VCF RES
54 VCF LFO
55 VCF ENV
56 VCF KEY
57 VCF DYNA
58 VCF MODE

61 VCA LEVEL
62 VCA MODE
63 VCA DYNA
64 CHORUS

71 LFO WF
72 LFO DELAY
73 LFO RATE

81 ENV1 ATT
82 ENV1 DECY
83 ENV1 SUS
84 ENV1 REL
85 ENV1 KEY

91 ENV2 ATT
92 ENV2 DECY
93 ENV2 SUS
94 ENV2 REL
95 ENV2 KEY

PATCH

| | | | | |
|----|-------------------|---|------------------|----------|
| 11 | A / B BALANCE | 00 | - | 99 |
| 12 | DUAL DETUNE | -50 | - | 00 - +50 |
| 13 | UPPER SPLIT POINT | A0 | - | C8 |
| 14 | LOWER SPLIT POINT | A0 | - | C8 |
| 15 | PORTAMENTO TIME | 00 | - | 99 |
| 16 | BEND RANGE | 2 | - 3 - 4 - 7 - 12 | |
| 17 | KEY MODE | DUAL T-VOICE X-FADE AWHOLE BWHOLE SPLIT | | |
| 18 | TOTAL VOLUME | 00 | - | 99 |

| | | | | |
|----|-----------------|----|---|----|
| 21 | AFTER TOUCH VIB | 00 | - | 99 |
| 22 | AFTER TOUCH BRI | 00 | - | 99 |
| 23 | AFTER TOUCH VOL | 00 | - | 99 |

| | | | | |
|----|-------------------|-------|-------|-----------------------------|
| 31 | A TONE NUMBER | 01 | - | 100 |
| 32 | A CHROMATIC SHIFT | -24 | - | 00 - +24 |
| 33 | A KEY ASSIGN | POLY1 | POLY2 | UNISON1 UNISON2 MONO1 MONO2 |
| 34 | A UNISON DETUNE | -50 | - | 00 - +50 |
| 35 | A HOLD | OFF | - | ON |
| 36 | A LFO MOD DEPTH | 00 | - | 99 |
| 37 | A PORTAMENTO | OFF | - | ON |
| 38 | A BENDER | OFF | - | ON |

| | | | | |
|----|-------------------|-------|-------|-----------------------------|
| 41 | B TONE NUMBER | 01 | - | 100 |
| 42 | B CHROMATIC SHIFT | -24 | - | 00 - +24 |
| 43 | B KEY ASSIGN | POLY1 | POLY2 | UNISON1 UNISON2 MONO1 MONO2 |
| 44 | B UNISON DETUNE | -50 | - | 00 - +50 |
| 45 | B HOLD | OFF | - | ON |
| 46 | B LFO MOD DEPTH | 00 | - | 99 |
| 47 | B PORTAMENTO | OFF | - | ON |
| 48 | B BENDER | OFF | - | ON |

| | | | | |
|----|-------------------|---------|---------|-------|
| 51 | CHASE PLAY LEVEL | 00 | - | 99 |
| 52 | CHASE PLAY MODE | [A-B-A] | [A-B-B] | [A-B] |
| 53 | CHASE PLAY TIME | 01 | - | 99 |
| 54 | CHASE PLAY SWITCH | OFF | - | ON |

MIDI

| | | | | |
|----|-------------------|------|---|------|
| 11 | MODE | MONO | - | POLY |
| 12 | CONTROL CHANNEL | 01 | - | 16 |
| 13 | PATCH PROG CHANGE | OFF | - | ON |
| 14 | SYSTEM EXCLUSIVE | OFF | - | ON |

| | | | | |
|----|---------------|-----|---|----|
| 21 | CHANNEL A | 01 | - | 16 |
| 22 | A PROG CHANGE | OFF | - | ON |
| 23 | A AFTER TOUCH | OFF | - | ON |
| 24 | A MIDI VOLUME | OFF | - | ON |

| | | | | |
|----|---------------|-----|---|----|
| 31 | CHANNEL B | 01 | - | 16 |
| 32 | B PROG CHANGE | OFF | - | ON |
| 33 | B AFTER TOUCH | OFF | - | ON |
| 34 | B MIDI VOLUME | OFF | - | ON |

TONE

| | | | | | |
|----|-----------|------|------|------|-------|
| 11 | DCO1 RANG | 2' | 4' | 8' | 16' |
| 12 | DCO1 WF | SAWT | PULS | SQUA | NOIS |
| 13 | DCO1 TUNE | -12 | - | 00 | - +12 |
| 14 | DCO1 LFO | 00 | - | 99 | |
| 15 | DCO1 ENV | 00 | - | 99 | |

| | | | | | |
|----|-----------|------|------|------|-------|
| 21 | DCO2 RANG | 2' | 4' | 8' | 16' |
| 22 | DCO2 WF | SAWT | PULS | SQUA | NOIS |
| 23 | DCO XMOD | OFF | SNC1 | SNC2 | XMOD |
| 24 | DCO2 TUNE | -12 | - | 00 | - +12 |
| 25 | DCO2 FTUN | -50 | - | 00 | - +50 |
| 26 | DCO2 LFO | 00 | - | 99 | |
| 27 | DCO2 ENV | 00 | - | 99 | |

| | | | | | |
|----|----------|-----|-----|-----|-----|
| 31 | DCO DYNA | OFF | 1 | 2 | 3 |
| 32 | DCO MODE | n-1 | u-1 | n-2 | u-2 |

| | | | | | |
|----|----------|-----|-----|-----|-----|
| 41 | MIX DCO1 | 00 | - | 99 | |
| 42 | MIX DCO2 | 00 | - | 99 | |
| 43 | MIX ENV | 00 | - | 99 | |
| 44 | MIX DYNA | OFF | 1 | 2 | 3 |
| 45 | MIX MODE | n-1 | u-1 | n-2 | u-2 |

| | | | | | |
|----|----------|-----|-----|-----|-----|
| 51 | HPF FREQ | OFF | 1 | 2 | 3 |
| 52 | VCF FREQ | 00 | - | 99 | |
| 53 | VCF RES | 00 | - | 99 | |
| 54 | VCF LFO | 00 | - | 99 | |
| 55 | VCF ENV | 00 | - | 99 | |
| 56 | VCF KEY | 00 | - | 99 | |
| 57 | VCF DYNA | OFF | 1 | 2 | 3 |
| 58 | VCF MODE | n-1 | u-1 | n-2 | u-2 |

| | | | | | |
|----|-----------|-----|------|----|---|
| 61 | VCA LEVEL | 00 | - | 99 | |
| 62 | VCA MODE | ENV | GATE | | |
| 63 | VCA DYNA | OFF | 1 | 2 | 3 |
| 64 | CHORUS | OFF | 1 | 2 | |

| | | | | | |
|----|-----------|------|------|------|--|
| 71 | LFO WF | SINE | SQUA | RAND | |
| 72 | LFO DELAY | 00 | - | 99 | |
| 73 | LFO RATE | 00 | - | 99 | |

| | | | | | |
|----|-----------|-----|---|----|---|
| 81 | ENV1 ATT | 00 | - | 99 | |
| 82 | ENV1 DECY | 00 | - | 99 | |
| 83 | ENV1 SUS | 00 | - | 99 | |
| 84 | ENV1 REL | 00 | - | 99 | |
| 85 | ENV1 KEY | OFF | 1 | 2 | 3 |

| | | | | | |
|----|-----------|-----|---|----|---|
| 91 | ENV2 ATT | 00 | - | 99 | |
| 92 | ENV2 DECY | 00 | - | 99 | |
| 93 | ENV2 SUS | 00 | - | 99 | |
| 94 | ENV2 REL | 00 | - | 99 | |
| 95 | ENV2 KEY | OFF | 1 | 2 | 3 |

NOTE: This document is for use only with factory MKS-70 ROM's v1.01 through v1.08