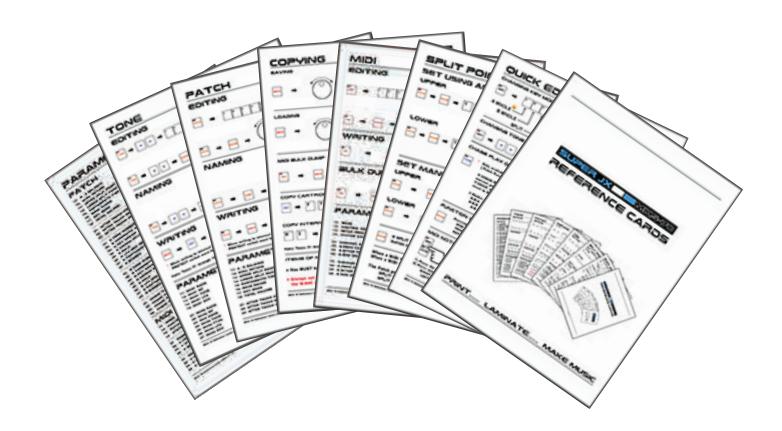
SUPER JX MKS=70 REFERENCE CARDS

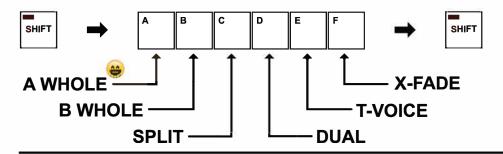


PRINT..... LAMINATE..... MAKE MUSIC

QUICK EDIT



CHANGING KEY MODES



A WHOLE 12-Voice Polyphonic B WHOLE SPLIT DUAL

G

12-Voice Polyphonic Split 1: A=B Split 2: A+B 6-Voice Polyphonic **T-VOICE** A / B Velocity Tone Select

X-FADE A / B Velocity Volume Mix

CHANGING TONE NUMBERS



CHASE PLAY OFF / ON



Only availabile when a patch is set to DUAL mode [Patch Parameter 17 KEY MODE 1

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

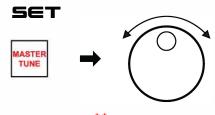
- 3 Modes Patch Parameter [52 CHASE PLAY MODE]
 - A-B-A Tone A is played, then Tone B, then Tone A, & so on...
 - **A-B-B** Tone A is played first, then Tone B repeatedly
 - **A-B** Tone A is played first, then Tone B and then it stops

FUNCTION DISPLAY



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



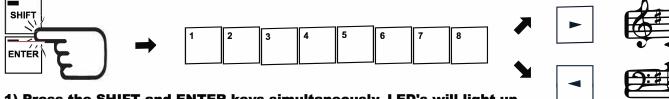
WRITE



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

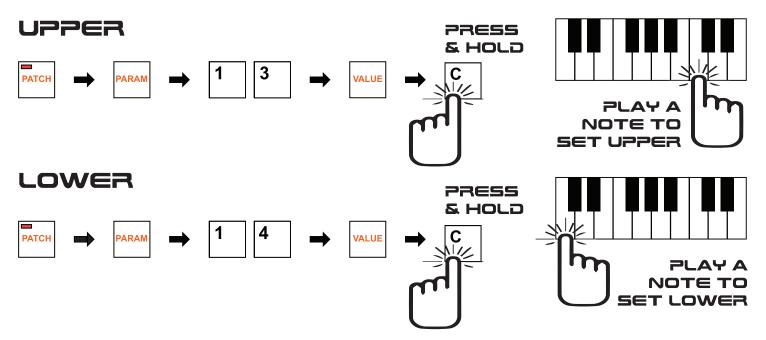
RIGHT ARROW = +1 octave increments in pitch **LEFT ARROW** = -1 octave increments in pitch



SPLIT POINTS

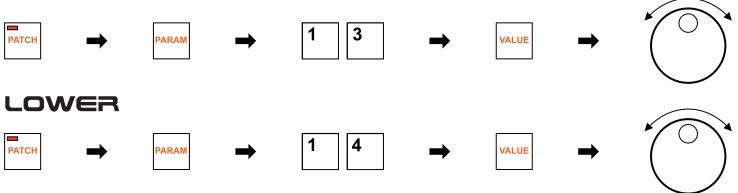


SET USING AN EXTERNAL KEYBOARD



SET MANUALLY

UPPER



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





ENTER

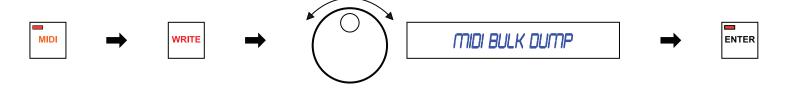
SAVING



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.

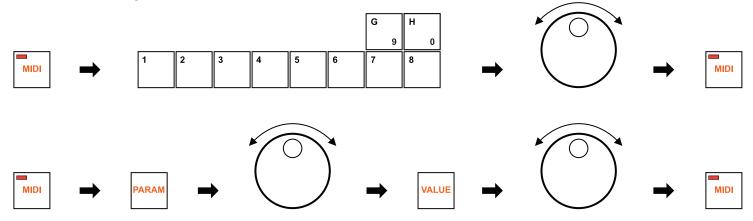
ITEMS OF NOTE

- 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

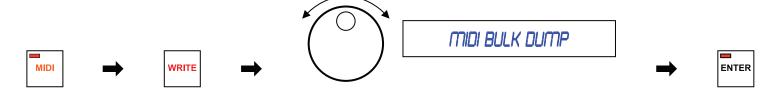


WRITING



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

BULK DUMP



ENTER

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	0FF	-	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	0FF	_	ON
34	B MIDI VOLUME	0FF	-	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

PATCH

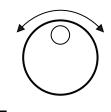


EDITING



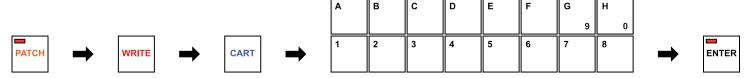


NAMING





WRITING



^{*} When writing to internal memory, the MKS-70 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

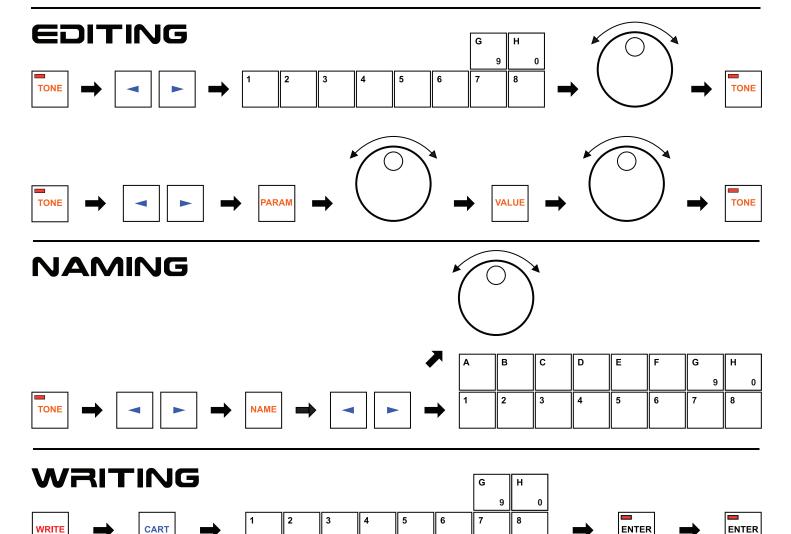
- 31 A TONE NUMBER
- 32 A CHROMATIC SHIFT
- 33 A KEY ASSIGN
- **34 A UNISON DETUNE**
- 35 A HOLD
- **36 A LFO MOD DEPTH**
- **37 A PORTAMENTO**
- 38 A BENDER
- **41 B TONE NUMBER**

- **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**

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

TONE





- * 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.

F	PARAME	ETEF	35		HPF FREQ		LFO WF
					VCF FREQ		LFO DELAY
11	DCO1 RANG	31	DCO DYNA	53	VCF RES	73	LFO RATE
12	DCO1 WF	32	DCO MODE	54	VCF LFO		
13	DCO1 TUNE			55	VCF ENV	81	ENV1 ATT
14	DCO1 LFO	41	MIX DCO1	56	VCF KEY	82	ENV1 DECY
15	DCO1 ENV	42	MIX DCO2	57	VCF DYNA	83	ENV1 SUS
		43	MIX ENV	58	VCF MODE	84	ENV1 REL
21	DCO2 RANG	44	MIX DYNA			85	ENV1 KEY
22	DCO2 WF	45	MIX MODE	61	VCA LEVEL		
23	DCO XMOD			62	VCA MODE	91	ENV2 ATT
24	DCO2 TUNE			63	VCA DYNA	92	ENV2 DECY
25	DCO2 FTUN			64	CHORUS	93	ENV2 SUS
26	DCO2 LFO					94	ENV2 REL
27	DCO2 ENV					95	ENV2 KEY

PARAMETERS SUPERJX MKS-70

11 DCO1 RANG 2	7	ATCH			T	ONE				
13 DPPER SPLIT POINT A0 - C8	11	A / B BALANCE	00 -	99	11	DCO1 RANG	2'	4'	8,	16'
14 LOWER SPLIT POINT A0 - C8 15 DCO1 ENV 00 - 99 - 10 16 BEND RANGE 2 3 - 4 7 - 12 2 2 DCO2 RANG 2 4 8 16 16 17 17 17 17 17 18 17 17	12	DUAL DETUNE	-50 -	00 - +50	12	DCO1 WF	SAWT	PULS	SQUA	NOIS
15 PORTAMENTO TIME 00 - 99	13	UPPER SPLIT POINT	A0 -	C8	13	DCO1 TUNE	- 12 -	00	- +1	2
16 BEND RANGE 2 - 3 - 4 - 7 - 12 17 KEY MODE 00 - 99 00 - 99 22 DCO2 WF SAMT PULS SQUA NOIS SQUA S	14	LOWER SPLIT POINT	A0 -	C8	14	DCO1 LFO	00 -	99		
TOTAL VOLUME	15	PORTAMENTO TIME	00 -	99	15	DCO1 ENV	00 -	99		
18	16	BEND RANGE	2 - 3	- 4 - 7 - 12						
AFTER TOUCH VIB	17	KEY MODE	DUAL T-VOIC	CE X-FADE AWHOLE BWHOLE SPLIT	21		2'	4'	8'	16'
21 AFTER TOUCH VIB	18	TOTAL VOLUME	00 -	99	22		SAWT	PULS	SQUA	NOIS
22 AFTER TOUCH BRI					23	DCO XMOD	OFF	SNC1	SNC2	XMOD
23 AFTER TOUCH VOL	21				24	DCO2 TUNE	- 12 -			
31 A TONE NUMBER 01 - 100 32 A CHROMATIC SHIFT -24 - 00 - +24 31 DCO DYNA OFF 1 2 3 32 DCO MODE N-1 N-2	22		00 -	99	25		- 50 -		- +5	0
31 A TONE NUMBER 01 - 100 - +24 31 DCO DYNA OFF 1 2 1 -2 1	23	AFTER TOUCH VOL	00 -	99	26	DCO2 LFO	00 -			
32 A CHROMATIC SHIFT -24 - 00 - +24 33 A KEY ASSIGN POLYT UNISSNI UNIS					27	DCO2 ENV	00 -	99		
33 A KEY ASSIGN P0/Y1 P0/Y2 WISSONI WISSON 10M02 34 A UNISON DETUNE -50				- · ·						
34 A UNISON DETUNE -50 - 00 - +50							OFF	1	2	3
35					32	DCO MODE	п-1	⊔-1	п-2	⊔-2
36 A LFO MOD DEPTH 00 99										
37 A PORTAMENTO OFF ON OTH										
38 A BENDER										
## ## ## ## ## ## ## ## ## ## ## ## ##								99		
41 B TONE NUMBER	38	A BENDER	OFF -	ON			OFF	1	2	
42 B CHROMATIC SHIFT -24 - 00 - +24 51 HPF FREQ 06 - 99	41	R TONE NUMBER	01 -	100	45	MIX MODE	п-1	ш-1	п-2	ш-2
43 B KEY ASSIGN				- · ·	51	HPF FREO	OFF	1	2	3
44 B UNISON DETUNE -50 - 00 - +50									_	,
45						•				
46 B LFO MOD DEPTH										
47 B PORTAMENTO OFF - ON 56 VCF KEY 00 - 99 48 B BENDER OFF - ON 57 VCF DYNA OFF 1 2 3 51 CHASE PLAY LEVEL 00 - 99 52 CHASE PLAY MODE [A-B-A] [A-B-B] [A-B] 61 VCA LEVEL 00 - 99 53 CHASE PLAY TIME 01 - 99 62 VCA MODE ENV GATE 64 CHORUS OFF 1 2 3 64 CHORUS OFF 1 2 65 VCF MODE 1 1 2 66 VCF MODE 1 1 2 67 VCF DYNA OFF 1 2 3 68 VCF MODE 1 1 2 69 VCA MODE ENV GATE 60 VCA DYNA OFF 1 2 3 60 CHASE PLAY SWITCH OFF - ON 61 VCA LEVEL 00 - 99 62 VCA MODE ENV GATE 64 CHORUS OFF 1 2 65 VCF MODE 1 1 2 66 VCF MODE 1 1 2 67 VCF DYNA OFF 1 2 3 68 VCF MODE 1 1 2 69 VCA MODE ENV GATE 69 VCA MODE ENV GATE 60 VCA DYNA OFF 1 2 3 60 CHASE PLAY SWITCH OFF - ON 61 VCA LEVEL 00 - 99 62 VCA MODE ENV GATE 60 VCA DYNA OFF 1 2 3 64 CHORUS OFF 1 2 3 65 VCF MODE 1 1 1 2 67 VCF DYNA OFF 1 2 3 64 CHORUS OFF 1 2 3 65 VCF MODE 1 1 1 2 67 VCF DYNA OFF 1 2 3 64 CHORUS OFF 1 2 3 65 VCF MODE 1 1 1 2 67 VCF DYNA OFF 1 2 3 64 CHORUS OFF 1 2 3 65 VCF MODE 1 1 1 2 67 VCF DYNA OFF 1 2 3 64 CHORUS OFF 1 2 3 65 VCF MODE 1 1 1 2 3 67 VCF DYNA OFF 1 2 3 67 VCF DYN OFF 1 2 3 67 VCF DYN OFF 1										
A										
Sample S									2	3
CHASE PLAY LEVEL 00 - 99		- BENDER		——————————————————————————————————————						
53 CHASE PLAY TIME 01 - 99 62 VCA MODE ENV GATE 54 CHASE PLAY SWITCH 0FF - 0N 63 VCA DYNA 0FF 1 2 3 64 CHORUS 0FF 1 2 71 LFO WF SINE SQUA RAND 71 LFO WF SINE SQUA RAND 72 LFO DELAY 00 - 99 73 PATCH PROG CHANGE 0FF - 0N 74 SYSTEM EXCLUSIVE 0FF - 0N 75 LFO RATE 00 - 99 76 ENV1 ATT 00 - 99 77 CHANNEL A 01 - 16 83 ENV1 ATT 00 - 99 78 ENV1 DECY 00 - 99 79 ENV2 A PROG CHANGE 0FF - 0N 84 ENV1 REL 00 - 99 70 A AFTER TOUCH 0FF - 0N 85 ENV1 KEY 0FF 1 2 3 71 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 71 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 71 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 71 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 71 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 71 ENV2 ATT 00 - 99 72 ENV2 DECY 00 - 99 73 ENV2 SUS 00 - 99 74 ENV2 REL 00 - 99	51	CHASE PLAY LEVEL	00 -	99						
CHASE PLAY TIME	52	CHASE PLAY MODE	ГА-В-А	ТА-В-ВТ ГА-ВТ	61	VCA LEVEL	00 -	99		
CHANNEL B OFF ON OTHER ON OTHER ON OTHER ON OTHER ON OTHER OTHER ON OTHER OTHER OTHER ON OTHER	53	CHASE PLAY TIME			62	VCA MODE	ENV	GATE		
71 LFO WF SINE SQUA RAND 11 MODE	54	CHASE PLAY SWITCH	OFF -	ON	63	VCA DYNA	OFF	1	2	3
11 MODE	_				64	CHORUS	0FF	1	2	
12 CONTROL CHANNEL 01 - 16	N				71	LFO WF	SINE	SQUA	RA	ND
12 CONTROL CHANNEL 01 - 16	11	MODE	MONO -	POLY	72	LFO DELAY	00 -	-		
14 SYSTEM EXCLUSIVE OFF - ON 81 ENV1 ATT 00 - 99 82 ENV1 DECY 00 - 99 21 CHANNEL A 01 - 16 83 ENV1 SUS 00 - 99 22 A PROG CHANGE OFF - ON 84 ENV1 REL 00 - 99 23 A AFTER TOUCH OFF - ON 85 ENV1 KEY 0FF 1 2 3 24 A MIDI VOLUME OFF - ON 91 ENV2 ATT 00 - 99 31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE OFF - ON 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH OFF - ON 94 ENV2 REL 00 - 99	12	CONTROL CHANNEL	01 -	16	73	LFO RATE	00 -	99		
S2 ENV1 DECY 00 - 99 21 CHANNEL A 01 - 16 83 ENV1 SUS 00 - 99 22 A PROG CHANGE 0FF - 0N 84 ENV1 REL 00 - 99 23 A AFTER TOUCH 0FF - 0N 85 ENV1 KEY 0FF 1 2 3	13	PATCH PROG CHANGE	OFF -	ON						
21 CHANNEL A 01 - 16 83 ENV1 SUS 00 - 99 22 A PROG CHANGE 0FF - 0N 84 ENV1 REL 00 - 99 23 A AFTER TOUCH 0FF - 0N 85 ENV1 KEY 0FF - 1 2 3 24 A MIDI VOLUME 0FF - 0N 91 ENV2 ATT 00 - 99 31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE 0FF - 0N 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH 0FF - 0N 94 ENV2 REL 00 - 99	14	SYSTEM EXCLUSIVE	OFF -	ON	81	ENV1 ATT	00 -	99		
22 A PROG CHANGE 0FF - 0N 84 ENV1 REL 00 - 99 23 A AFTER TOUCH 0FF - 0N 85 ENV1 KEY 0FF - 1 2 3 24 A MIDI VOLUME 0FF - 0N 91 ENV2 ATT 00 - 99 31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE 0FF - 0N 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH 0FF - 0N 94 ENV2 REL 00 - 99					82	ENV1 DECY	00 -	99		
23 A AFTER TOUCH OFF - ON	21	CHANNEL A	01 -	16	83	ENV1 SUS	00 -	99		
24 A MIDI VOLUME OFF - ON 91 ENV2 ATT 00 - 99 31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE OFF - ON 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH OFF - ON 94 ENV2 REL 00 - 99	22	A PROG CHANGE	OFF -	ON	84	ENV1 REL	00 -	99		
31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE 0F - 0N 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH 0F - 0N 94 ENV2 REL 00 - 99	23	A AFTER TOUCH	OFF -	ON	85	ENV1 KEY	OFF	1	2	3
31 CHANNEL B 01 - 16 92 ENV2 DECY 00 - 99 32 B PROG CHANGE 0FF - 0N 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH 0FF - 0N 94 ENV2 REL 00 - 99	24	A MIDI VOLUME	OFF -	ON						
32 B PROG CHANGE 0FF - 0N 93 ENV2 SUS 00 - 99 33 B AFTER TOUCH 0FF - 0N 94 ENV2 REL 00 - 99										
33 B AFTER TOUCH 0FF - 0N 94 ENV2 REL 00 - 99										
34 B MIDI VOLUME 0FF - 0N 95 ENV2 KEY 0FF 1 2 3									_	_
	34	B MIDI VOLUME	OFF -	ON	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