
SX- EA3 / SX- EA5 REFERENCE GUIDE

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DEMO PERFORMANCE

Style Demo	SHOW	SOUND	PIANO	
	BIG BAND		GUITAR	
	ORCHESTRA (Tschaikowsky : Swan Lake)		STRINGS	
ORGAN	JAZZ ORGAN		BRASS BAND (J.P.Sousa : The stars and stripes forever)	
	EUROPEAN		SOLO BRASS	
	PIPE ORGAN (EA5)		SYNTH	
	BOSSANOVA		RHYTHM	ORGAN WALTZ
	GOSPEL			ORGAN SAMBA
	8BT BALLAD			
	COUNTRY			
	FOXTROT			
		BROADWAY SHOW		

•Demonstration performances for which no source is indicated are Technics original compositions.

EASY SETTING (Press and hold)

TECHNI-CHORD



→ TECHNI-CHORD TYPE

DIGITAL REVERB



→ REVERB SETTING

1 2 3
○ ○ ○



→ MUSIC STYLE ARRANGER MODE

DISK DRIVE



→ DISK LOAD

SET



(EA3)

→ PANEL MEMORY MODE

SET

(EA5)

TREMOLO SLOW/FAST

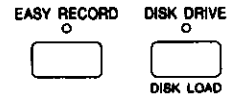
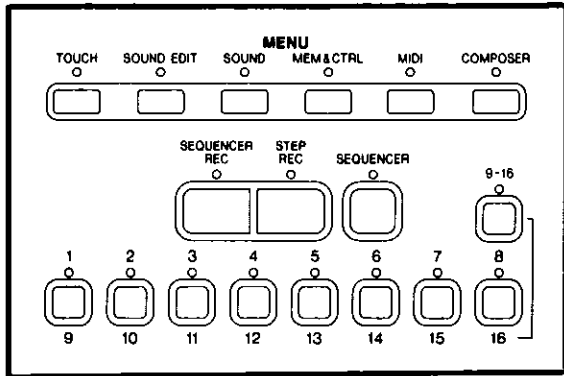


→ TREMOLO SPEED SETTING

TREMOLO & CELESTE

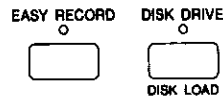
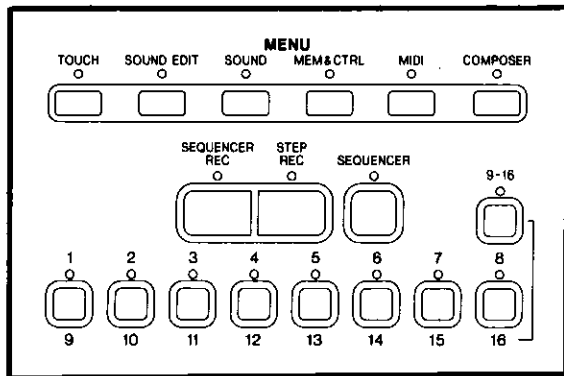


→ ORGAN EFFECT TYPE



BUTTON	MENU	FUNCTION
TOUCH	INITIAL TOUCH SENSITIVITY	
	TOUCH SENSE PART SETTING	
SOUND EDIT	EASY EDIT	
	GENERAL EDIT	OCTAVE SHIFT VIBRATO AUTO BEND&TRILL
	TONE EDIT	TONE VOLUME & PITCH ENVELOPE FILTER
	EFFECT EDIT	
SOUND	PART SETTING	SUSTAIN REVERB KEY VOLUME TUNING BEND ASSIGN
	REVERB	
	TREMOLO SPEED	
	MASTER TUNE	
	TECHINI-CHORD TYPE	
	GLIDE RANGE	
	ORGAN EFFECT	
MEM&CTRL	INITIAL SETTING	
	FOOT SWITCH	
	POWER-ON MODE	
	PANEL MEMORY MODE	
	MUSIC STYLE ARRANGER MODE	
	LANGUAGE	
MIDI	CHANNEL	
	CONTROL	
	OCTAVE & LOCAL SETTING	
	REALTIME	
	COMMON	SETTING1 SETTING2
	PANEL MEMORY OUT	
	MIDI PRESETS	
	INPUT	
	OUTPUT	
	GENERAL MIDI	

BUTTON	MENU	FUNCTION	
COMPOSER	RECORD MEM-A		
	RECORD MEM-B		
	MODE SELECT		
	PATTERN COPY		
	LOAD SINGLE PATTERN		
SEQUENCER REC	REALTIME RECORD		
STEP REC	STEP RECORD		
SEQUENCER	PUNCH RECORD		
	TRACK ASSIGN		
	EXPRESSION SETTING		
	EDIT	SONG CLEAR TRACK CLEAR TRACK MERGE QUANTIZE MEASURE ERASE MEASURE COPY MEASURE DELETE MEASURE INSERT VELOCITY CHANGE	
	PLAY		
	MEDLEY		
	EASY RECORD	EASY RECORD	
	DISK DRIVE	DISK SAVE	
		DISK LOAD	
		MIDI FILE LOAD	
DISK FORMAT			
LOAD SINGLE COMPOSER PATTERN			
LOAD SINGLE SOUND MEMORY			



BUTTON	MENU	FUNCTION
TOUCH	INITIAL TOUCH SENSITIVITY	
	TOUCH SENSE PART SETTING	
SOUND EDIT	EASY EDIT	
	GENERAL EDIT	OCTAVE SHIFT VIBRATO AUTO BEND&TRILL
	TONE EDIT	TONE VOLUME & PITCH ENVELOPE FILTER
	EFFECT EDIT	
SOUND	PART SETTING	SUSTAIN REVERB PAN KEY VOLUME TUNING BEND ASSIGN
	REVERB	
	TREMOLO SPEED	
	MASTER TUNE	
	TECHINI-CHORD TYPE	
	GLIDE RANGE	
	ORGAN EFFECT	
	MEM&CTRL	INITIAL SETTING
FOOT SWITCH		
POWER-ON MODE		
PANEL MEMORY MODE		
MUSIC STYLE ARRANGER MODE		
MIDI	CHANNEL CONTROL	
	OCTAVE & LOCAL SETTING	
	REALTIME	
	COMMON	SETTING1 SETTING2
	PANEL MEMORY OUT	
	MIDI.PRESETS	
	INPUT	
	OUTPUT	
	GENERAL MIDI	

BUTTON	MENU	FUNCTION	
COMPOSER	RECORD MEM-A		
	RECORD MEM-B		
	MODE SELECT		
	PATTERN COPY		
	LOAD SINGLE PATTERN		
SEQUENCER REC	REALTIME RECORD		
STEP REC	STEP RECORD		
SEQUENCER	PUNCH RECORD		
	TRACK ASSIGN		
	EXPRESSION SETTING		
	EDIT	SONG CLEAR TRACK CLEAR TRACK MERGE QUANTIZE MEASURE ERASE MEASURE COPY MEASURE DELETE MEASURE INSERT VELOCITY CHANGE	
	PLAY		
	MEDLEY		
	EASY RECORD	EASY RECORD	
	DISK DRIVE	DISK SAVE	
		DISK LOAD	
		MIDI FILE LOAD	
MIDI FILE SAVE			
DISK FORMAT			
LOAD SINGLE COMPOSER PATTERN			
LOAD SINGLE SOUND MEMORY			

UPPER/LOWER ORGAN PRESET

EA3

ORGAN GROUP PRESET NAME		MIDI PROGRAM CHANGE DATA NORM=TECH
UPPER	LOWER	
ELECTRONIC TABS		
WARM SOLO	TYPICAL 8' & 4'	0 (0)
CONTINENTAL	RICH FLUTES	1 (0)
WARM & BRIGHT	MANY PITCHES	2 (0)
MAIN THEME	SHARP 8'	3 (0)
LIGHT FLUTES	WIDE FLUTES	4 (0)
FULL THEATRE	FULL LOWER	5 (0)
DRAWBARS		
BOSSA DRAWBAR	JAZZ ACCOMP	0 (4)
SMOKIN' 'B'	EIGHT TO ONE	1 (4)
POP DRAWBARS	8'+4' CLICK	2 (4)
16'+1' COMBO	POP ACCOMP	3 (4)
LUSCIOUS SND.	MELLOW MIX	4 (4)
FULL DRAWBARS	FULL FOOTAGE	5 (4)
CLASSICAL PIPE ORGAN		
BASIC 16'+8'	FLUTE & DIAP.	0 (12)
HYMN	BASIC 8'+8'	1 (12)
FULL ORGAN	SOFT MIXTURE	2 (12)
TUTTI	FULL ORGAN	3 (12)

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
PIANO				BRASS			
Grand Piano	6 (0)	0 (0)	1	Brass	10 (0)	56 (0)	62
Upright Piano	6 (1)	2 (32)	-	Octave Brass	10 (1)	56 (16)	-
Mellow Piano	6 (2)	2 (0)	-	Trumpet	10 (2)	48 (0)	57
Piano 1 Oct.	6 (3)	0 (16)	-	Mute Trumpet	10 (3)	50 (0)	60
Rock Piano	6 (4)	3 (32)	-	Flugel Horn	10 (4)	51 (0)	-
Honky Tonk	6 (5)	1 (16)	4	Bri. Trombone	10 (5)	52 (0)	58
Piano 2 Oct.	6 (6)	2 (16)	-	Brass & Synth	10 (6)	56 (48)	-
Solo Piano 16'	6 (7)	0 (48)	-	Close Fr. Horn	10 (7)	54 (0)	-
Bright Piano	6 (8)	1 (0)	2	Open Fr. Horn	10 (8)	54 (16)	61
Elect. Grand	6 (9)	3 (0)	3				
Midi Grand	6 (10)	0 (32)	-				
Jangle Piano	6 (11)	1 (48)	-				
E PIANO/HARPSI				MALLET			
E. Piano 1	7 (0)	5 (0)	5	Glockenspiel	0 (0)	9 (0)	10
E. Piano 2	7 (1)	5 (32)	-	Vibraphone	0 (1)	8 (0)	12
Modern E.P.1	7 (2)	6 (0)	6	Marimba	0 (2)	10 (0)	13
Modern E.P.2	7 (3)	4 (0)	-	Xylophone	0 (3)	11 (0)	14
Harpsichord	7 (4)	16 (0)	7	Tubular Bells	0 (4)	14 (0)	15
Synth Clavi	7 (5)	115 (0)	-	Steel Drum	0 (5)	15 (0)	115
Cembalo	7 (6)	18 (0)	-				
Clavi	7 (7)	17 (0)	8				
GUITAR				SPECIAL PERC			
Classical Gtr	8 (0)	20 (0)	-	Banjo	1 (0)	33 (0)	106
Bright Ac. Gtr	8 (1)	21 (0)	25	Mandolin	1 (1)	35 (0)	-
Jazz Guitar	8 (2)	25 (0)	27	Harp	1 (2)	32 (0)	47
Bright Solid	8 (3)	26 (0)	28	Orchestra Hit	1 (3)	127 (16)	56
Country Gtr	8 (4)	31 (16)	-	Timpani	1 (4)	126 (0)	48
Hawaiian Gtr	8 (5)	31 (0)	-	Kalimba	1 (5)	39 (0)	109
Folk Guitar	8 (6)	22 (0)	26	Music Box	1 (6)	7 (0)	11
12 String Gtr	8 (7)	23 (0)	-				
Mellow Solid	8 (8)	28 (0)	-				
Mute Guitar	8 (9)	29 (0)	29				
Distortion Gtr	8 (10)	30 (0)	31				
STRINGS/VOCAL				REED			
Strings	9 (0)	100 (0)	49	Jazz Clarinet	2 (0)	68 (0)	72
Soft Strings	9 (1)	101 (32)	-	Clas. Clarinet	2 (1)	69 (0)	-
Pizzicato	9 (2)	99 (0)	46	Oboe	2 (2)	66 (0)	69
Violin	9 (3)	96 (0)	41	Bri. Accordion	2 (3)	80 (0)	22
Choir Ah	9 (4)	104 (0)	-	Musette	2 (4)	82 (0)	-
Vocal Ooh	9 (5)	104 (32)	-	Blues Harmonica	2 (5)	83 (16)	23
Octave Strings	9 (6)	102 (0)	-	English Horn	2 (6)	67 (0)	70
Synth Strings	9 (7)	103 (0)	51	Bassoon	2 (7)	70 (0)	71
Cello	9 (8)	97 (0)	43				

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
SAX/FLUTE				SYNTH			
Soprano Sax	3 (0)	76 (0)	65	Synth Brass	4 (0)	60 (0)	64
Alto Sax	3 (1)	77 (0)	66	Syn.Brass Ens	4 (1)	61 (16)	63
Mellow Alto	3 (2)	77 (16)	—	Square Lead	4 (2)	117 (0)	81
Tenor Sax	3 (3)	78 (48)	—	Saw Lead	4 (3)	118 (16)	82
Breathy Tenor	3 (4)	78 (16)	67	Fantasia	4 (4)	116 (32)	89
Jazz Flute	3 (5)	85 (0)	74	Dream	4 (5)	108 (32)	—
Rock Tenor	3 (6)	79 (0)	—	Spacy Pad	4 (6)	107 (32)	92
Baritone Sax	3 (7)	79 (16)	68	Crystal Ens.	4 (7)	120 (0)	93
Piccolo	3 (8)	64 (0)	73	Metal Pad	4 (8)	106 (32)	94
Classic Flute	3 (9)	65 (16)	—				
Pan Flute	3 (10)	72 (0)	76				
MEMORY A				MEMORY B			
Memory A-1	11 (0)	0 (128)	—	Memory B-1	5 (0)	18 (128)	—
Memory A-2	11 (1)	1 (128)	—	Memory B-2	5 (1)	19 (128)	—
Memory A-3	11 (2)	2 (128)	—	Memory B-3	5 (2)	20 (128)	—
Memory A-4	11 (3)	3 (128)	—	Memory B-4	5 (3)	21 (128)	—
Memory A-5	11 (4)	4 (128)	—	Memory B-5	5 (4)	22 (128)	—
Memory A-6	11 (5)	5 (128)	—	Memory B-6	5 (5)	23 (128)	—
Memory A-7	11 (6)	6 (128)	—	Memory B-7	5 (6)	24 (128)	—
Memory A-8	11 (7)	7 (128)	—	Memory B-8	5 (7)	25 (128)	—
Memory A-9	11 (8)	8 (128)	—	Memory B-9	5 (8)	26 (128)	—
Memory A-10	11 (9)	9 (128)	—	Memory B-10	5 (9)	27 (128)	—
Memory A-11	11 (10)	10 (128)	—	Memory B-11	5 (10)	28 (128)	—
Memory A-12	11 (11)	11 (128)	—	Memory B-12	5 (11)	29 (128)	—
Memory A-13	11 (12)	12 (128)	—	Memory B-13	5 (12)	30 (128)	—
Memory A-14	11 (13)	13 (128)	—	Memory B-14	5 (13)	31 (128)	—
Memory A-15	11 (14)	14 (128)	—	Memory B-15	5 (14)	32 (128)	—
Memory A-16	11 (15)	15 (128)	—	Memory B-16	5 (15)	33 (128)	—
Memory A-17	11 (16)	16 (128)	—	Memory B-17	5 (16)	34 (128)	—
Memory A-18	11 (17)	17 (128)	—	Memory B-18	5 (17)	35 (128)	—

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

BASS PEDALS

EA3

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
ORGAN (PRESET)				MEMORY			
JazzOrgnBass1	0 (0)	88 (16)	—	Memory 1	5 (0)	0 (128)	—
JazzOrgnBass2	0 (1)	88 (32)	—	Memory 2	5 (1)	1 (128)	—
CLASSICAL ORGAN (PRESET)				Memory 3	5 (2)	2 (128)	—
PipeCoupler 1	1 (0)	84 (16)	—	Memory 4	5 (3)	3 (128)	—
PipeCoupler 2	1 (1)	84 (32)	—	Memory 5	5 (4)	4 (128)	—
Basic Pipes	1 (2)	85 (48)	—	Memory 6	5 (5)	5 (128)	—
STANDARD				Memory 7	5 (6)	6 (128)	—
Acoustic Bass	2 (0)	43 (0)	33	Memory 8	5 (7)	7 (128)	—
Mellow A. Bass	2 (1)	43 (16)	—	Memory 9	5 (8)	8 (128)	—
Electric Bass	2 (2)	40 (0)	—	Memory 10	5 (9)	9 (128)	—
Bright E. Bass	2 (3)	40 (16)	34	Memory 11	5 (10)	10 (128)	—
Fretless Bass	2 (4)	40 (32)	36	Memory 12	5 (11)	11 (128)	—
ORCHESTRAL				Memory 13	5 (12)	12 (128)	—
OctaveStrings	3 (0)	102 (0)	—	Memory 14	5 (13)	13 (128)	—
Pizzicato	3 (1)	99 (0)	46	Memory 15	5 (14)	14 (128)	—
Bowad Bass	3 (2)	98 (0)	44	Memory 16	5 (15)	15 (128)	—
Tuba	3 (3)	55 (0)	59				
Timpani	3 (4)	126 (0)	48				
CONTEMPORARY							
Mute Bass	4 (0)	47 (0)	—				
Slap Bass	4 (1)	41 (0)	37				
Analog Bass	4 (2)	46 (16)	—				
Synth Chopper	4 (3)	45 (0)	40				
Wow Bass	4 (4)	46 (0)	39				

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

KEYBOARD PERCUSSION KIT

EA3

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
KEYBOARD PERCUSSION				KEYBOARD PERCUSSION			
Rock Kit 1	0 (0)	112 (128)	—	Brush Kit 1	0 (5)	117 (128)	—
Rock Kit 2	0 (1)	115 (128)	—	Brush Kit 2	0 (6)	127 (128)	—
Light Rock Kit	0 (2)	126 (128)	—	Orchestral Kit	0 (7)	124 (128)	—
Soul Kit	0 (3)	121 (128)	—	Trad Kit	0 (8)	118 (128)	—
Jazz Kit	0 (4)	113 (128)	—				

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

UPPER / LOWER ORGAN PRESET

EA5

ORGAN GROUP PRESET NAME		MIDI PROGRAM CHANGE DATA NORM=TECH		
UPPER	LOWER	ORGAN TYPE		
ELECTRONIC TABS				
		Standard	Theatre	US.trad.
WARM SOLO	WARM TABS	0 (0)	0 (1)	0 (2)
LIGHT JAZZ	TYPICAL 8' & 4'	1 (0)	1 (1)	1 (2)
THEATRE SOLO	DOUBLE OCTAVE	2 (0)	2 (1)	2 (2)
CONTINENTAL	RICH FLUTES	3 (0)	3 (1)	3 (2)
WARM & BRIGHT	MANY PITCHES	4 (0)	4 (1)	4 (2)
MAIN THEME	SHARP 8'	5 (0)	5 (1)	5 (2)
CELLO TAB	IN THE MIDDLE	6 (0)	6 (1)	6 (2)
LIGHT FLUTES	WIDE FLUTES	7 (0)	7 (1)	7 (2)
FULL THEATRE	FULL LOWER	8 (0)	8 (1)	8 (2)
MANUAL	MANUAL	64 (0)	64 (1)	64 (2)
DRAWBARS				
		Jazz	Standard	
BOSSA DRAWBAR	8'+1' COMBO	0 (4)	0 (5)	
SMOKIN' 'B'	JAZZ ACCOMP 1	1 (4)	1 (5)	
8' 4' 2' COMBO	EIGHT TO ONE	2 (4)	2 (5)	
POP DRAWBARS	8'+4' CLICK	3 (4)	3 (5)	
NOVELTY D.BRS	POP ACCOMP	4 (4)	4 (5)	
MELLOW MIX	JAZZ ACCOMP 2	5 (4)	5 (5)	
16'+1' COMBO	MELLOW MIX	6 (4)	6 (5)	
LUSCIOUS SND.	EVEN+ODD MIX	7 (4)	7 (5)	
FULL DRAWBARS	FULL FOOTAGE	8 (4)	8 (5)	
MANUAL	MANUAL	64 (4)	64 (5)	
CLASSICAL PIPE ORGAN				
CHIFF 16'	FLUTE & DIAP.	0 (12)		
BASIC 16'+8'	BASIC 8'+8'	1 (12)		
HYMN 1	MIXED 8' COMB	2 (12)		
HYMN 2	BRIGHT & OPEN	3 (12)		
HYMN 3	SOFT MIXTURE	4 (12)		
FULL ORGAN 1	WARM REEDS	5 (12)		
FULL ORGAN 2	MELLOW REEDS	6 (12)		
TUTTI 1	FULL ORGAN	7 (12)		
TUTTI 2	FULL+REEDS	8 (12)		
MANUAL	MANUAL	64 (12)		

*The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
PIANO				BRASS			
Grand Piano	6 (0)	0 (0)	1	Brass	10 (0)	56 (0)	62
Upright Piano	6 (1)	2 (32)	—	Octave Brass	10 (1)	56 (16)	—
Mellow Piano	6 (2)	2 (0)	—	Trumpet	10 (2)	48 (0)	57
Piano 1 Oct.	6 (3)	0 (16)	—	Mute Trumpet	10 (3)	50 (0)	60
Rock Piano	6 (4)	3 (32)	—	Flugel Horn	10 (4)	51 (0)	—
Honky Tonk	6 (5)	1 (16)	4	Bri.Trombone	10 (5)	52 (0)	58
Piano 2 Oct.	6 (6)	2 (16)	—	Brass & Synth	10 (6)	56 (48)	—
Solo Piano 16'	6 (7)	0 (48)	—	Orch.Trumpet	10 (7)	48 (32)	—
Bright Piano	6 (8)	1 (0)	2	Orch.Trombone	10 (8)	52 (16)	—
Elect. Grand	6 (9)	3 (0)	3	Close Fr.Horn	10 (9)	54 (0)	—
Midi Grand	6 (10)	0 (32)	—	Open Fr.Horn	10 (10)	54 (16)	61
Jangle Piano	6 (11)	1 (48)	—				
E PIANO/HARPSI				MALLET			
E.Piano 1	7 (0)	5 (0)	5	Glockenspiel	0 (0)	9 (0)	10
E.Piano 2	7 (1)	5 (32)	—	Vibraphone	0 (1)	8 (0)	12
Modern E.P.1	7 (2)	6 (0)	6	Marimba	0 (2)	10 (0)	13
Modern E.P.2	7 (3)	4 (0)	—	Xylophone	0 (3)	11 (0)	14
Harpsichord	7 (4)	16 (0)	7	Tubular Bells	0 (4)	14 (0)	15
Synth Clavi	7 (5)	115 (0)	—	Steel Drum	0 (5)	15 (0)	115
Modern E.P.3	7 (6)	6 (48)	—	Celesta	0 (6)	12 (0)	9
Cembalo	7 (7)	18 (0)	—	Caribb Mallet	0 (7)	11 (16)	—
Clavi	7 (8)	17 (0)	8				
GUITAR				SPECIAL PERC			
Classical Gtr	8 (0)	20 (0)	—	Banjo	1 (0)	33 (0)	106
Bright Ac.Gtr	8 (1)	21 (0)	25	Harp	1 (1)	32 (0)	47
Jazz Guitar	8 (2)	25 (0)	27	Orchestra Hit	1 (2)	127 (16)	56
Bright Solid	8 (3)	26 (0)	28	Timpani	1 (3)	126 (0)	48
Country Gtr	8 (4)	31 (16)	—	Kalimba	1 (4)	39 (0)	109
Hawaiian Gtr	8 (5)	31 (0)	—	Koto	1 (5)	37 (0)	108
Folk Guitar	8 (6)	22 (0)	26	Mandolin	1 (6)	35 (0)	—
12 String Gtr	8 (7)	23 (0)	—	Music Box	1 (7)	7 (0)	11
Mellow Solid	8 (8)	28 (0)	—				
Mute Guitar	8 (9)	29 (0)	29				
DistortionGtr	8 (10)	30 (0)	31				
Over drive Gtr	8 (11)	27 (32)	30				
STRINGS/VOCAL				REED			
Strings	9 (0)	100 (0)	49	Jazz Clarinet	2 (0)	68 (0)	72
Soft Strings	9 (1)	101 (32)	—	Clas.Clarinet	2 (1)	69 (0)	—
Pizzicato	9 (2)	99 (0)	46	Oboe	2 (2)	66 (0)	69
Violin	9 (3)	96 (0)	41	Bri.Accordion	2 (3)	80 (0)	22
Choir Ah	9 (4)	104 (0)	—	Musette	2 (4)	82 (0)	—
Vocal Ooh	9 (5)	104 (32)	—	BluesHarmnica	2 (5)	83 (16)	23
Slow Strings	9 (6)	101 (0)	50	English Horn	2 (6)	67 (0)	70
OctaveStrings	9 (7)	102 (0)	—	Bassoon	2 (7)	70 (0)	71
Synth Strings	9 (8)	103 (0)	51				
Jazz Violin	9 (9)	96 (16)	—				
Cello	9 (10)	97 (0)	43				

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
SAX/FLUTE				SYNTH			
Soprano Sax	3 (0)	76 (0)	65	Synth Brass	4 (0)	60 (0)	64
Alto Sax	3 (1)	77 (0)	66	Syn. Brass Ens	4 (1)	61 (16)	63
Mellow Alto	3 (2)	77 (16)	—	Square Lead	4 (2)	117 (0)	81
Tenor Sax	3 (3)	78 (48)	—	Saw Lead	4 (3)	118 (16)	82
Breathy Tenor	3 (4)	78 (16)	67	Fantasia	4 (4)	116 (32)	89
Jazz Flute	3 (5)	65 (0)	74	Dream	4 (5)	108 (32)	—
Rock Tenor	3 (6)	79 (0)	—	Spacy Pad	4 (6)	107 (32)	92
Baritone Sax	3 (7)	79 (16)	68	Crystal Ens.	4 (7)	120 (0)	93
Piccolo	3 (8)	64 (0)	73	Metal Pad	4 (8)	106 (32)	94
Classic Flute	3 (9)	65 (16)	—				
Alto Flute	3 (10)	64 (16)	—				
Pan Flute	3 (11)	72 (0)	76				
MEMORY A				MEMORY B			
Memory A-1	11 (0)	0 (128)	—	Memory B-1	5 (0)	18 (128)	—
Memory A-2	11 (1)	1 (128)	—	Memory B-2	5 (1)	19 (128)	—
Memory A-3	11 (2)	2 (128)	—	Memory B-3	5 (2)	20 (128)	—
Memory A-4	11 (3)	3 (128)	—	Memory B-4	5 (3)	21 (128)	—
Memory A-5	11 (4)	4 (128)	—	Memory B-5	5 (4)	22 (128)	—
Memory A-6	11 (5)	5 (128)	—	Memory B-6	5 (5)	23 (128)	—
Memory A-7	11 (6)	6 (128)	—	Memory B-7	5 (6)	24 (128)	—
Memory A-8	11 (7)	7 (128)	—	Memory B-8	5 (7)	25 (128)	—
Memory A-9	11 (8)	8 (128)	—	Memory B-9	5 (8)	26 (128)	—
Memory A-10	11 (9)	9 (128)	—	Memory B-10	5 (9)	27 (128)	—
Memory A-11	11 (10)	10 (128)	—	Memory B-11	5 (10)	28 (128)	—
Memory A-12	11 (11)	11 (128)	—	Memory B-12	5 (11)	29 (128)	—
Memory A-13	11 (12)	12 (128)	—	Memory B-13	5 (12)	30 (128)	—
Memory A-14	11 (13)	13 (128)	—	Memory B-14	5 (13)	31 (128)	—
Memory A-15	11 (14)	14 (128)	—	Memory B-15	5 (14)	32 (128)	—
Memory A-16	11 (15)	15 (128)	—	Memory B-16	5 (15)	33 (128)	—
Memory A-17	11 (16)	16 (128)	—	Memory B-17	5 (16)	34 (128)	—
Memory A-18	11 (17)	17 (128)	—	Memory B-18	5 (17)	35 (128)	—

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

BASS PEDALS

EA5

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
ORGAN (PRESET)				CONTEMPORARY			
JazzOrgnBass1	0 (0)	88 (16)	—	Mute Bass	4 (0)	47 (0)	—
JazzOrgnBass2	0 (1)	88 (32)	—	Slap Bass 1	4 (1)	41 (0)	37
Theatre Gamba	0 (2)	93 (16)	—	Slap Bass 2	4 (2)	41 (16)	38
CLASSICAL ORGAN (PRESET)				Analog Bass	4 (3)	46 (16)	—
PipeCoupler 1	1 (0)	84 (16)	—	Synth Chopper	4 (4)	45 (0)	40
PipeCoupler 2	1 (1)	84 (32)	—	Rock Bass	4 (5)	47 (16)	—
Basic Pipes	1 (2)	85 (48)	—	Wow Bass	4 (6)	46 (0)	39
STANDARD				MEMORY			
Acoustic Bass	2 (0)	43 (0)	33	Memory 1	5 (0)	0 (128)	—
Mellow A. Bass	2 (1)	43 (16)	—	Memory 2	5 (1)	1 (128)	—
Electric Bass	2 (2)	40 (0)	—	Memory 3	5 (2)	2 (128)	—
Bright E. Bass	2 (3)	40 (16)	34	Memory 4	5 (3)	3 (128)	—
Fretless Bass	2 (4)	40 (32)	36	Memory 5	5 (4)	4 (128)	—
Picked E. Bass	2 (5)	42 (0)	35	Memory 6	5 (5)	5 (128)	—
Funky E. Bass	2 (6)	40 (48)	—	Memory 7	5 (6)	6 (128)	—
Grand Piano	2 (7)	0 (0)	1	Memory 8	5 (7)	7 (128)	—
ORCHESTRAL				Memory 9	5 (8)	8 (128)	—
OctaveStrings	3 (0)	102 (0)	—	Memory 10	5 (9)	9 (128)	—
Bowed Bass	3 (1)	98 (0)	44	Memory 11	5 (10)	10 (128)	—
Bass Trombone	3 (2)	52 (32)	—	Memory 12	5 (11)	11 (128)	—
Tuba	3 (3)	55 (0)	59	Memory 13	5 (12)	12 (128)	—
Timpani	3 (4)	126 (0)	48	Memory 14	5 (13)	13 (128)	—
Pizzicato	3 (5)	99 (0)	46	Memory 15	5 (14)	14 (128)	—
Bass Drum	3 (6)	126 (48)	—	Memory 16	5 (15)	15 (128)	—
Cymbal	3 (7)	126 (16)	—				

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

KEYBOARD PERCUSSION KIT

EA5

SOUND	MIDI PROGRAM CHANGE DATA			SOUND	MIDI PROGRAM CHANGE DATA		
	NORM	TECH	GM		NORM	TECH	GM
KEYBOARD PERCUSSION				KEYBOARD PERCUSSION			
Rock Kit 1	0 (0)	112 (128)	—	Brush Kit 1	0 (5)	117 (128)	—
Rock Kit 2	0 (1)	115 (128)	—	Brush Kit 2	0 (6)	127 (128)	—
Light Rock Kit	0 (2)	126 (128)	—	Orchestral Kit	0 (7)	124 (128)	—
Soul Kit	0 (3)	121 (128)	—	Trad Kit	0 (8)	118 (128)	—
Jazz Kit	0 (4)	113 (128)	—				

•The numbers in parentheses () are bank data.

Program change number = Program change data+1 / Bank number = Bank data+1

RHYTHM

RHYTHM	MIDI PROGRAM CHANGE DATA		RHYTHM	MIDI PROGRAM CHANGE DATA	
	NORM	TECH		NORM	TECH
8BEAT			COUNTRY/R&B		
8Bt Standard1	8 (0)	90 (96)	Country 2step	12 (0)	17 (112)
8Bt Standard2	8 (1)	90 (80)	CountryBallad	12 (1)	75 (48)
8Bt SoftRock	8 (2)	90 (48)	Country Waltz	12 (2)	19 (0)
8Bt Ballad 1	8 (3)	91 (32)	Country Folk	12 (3)	16 (16)
8Bt Ballad 2	8 (4)	91 (16)	R&B 8 Beat	12 (4)	81 (16)
Folk Rock	8 (5)	85 (0)	R&B Ballad	12 (5)	75 (64)
8Bt Pop	8 (6)	84 (48)	Country Pop	12 (6)	17 (64)
Country Rock	8 (7)	85 (32)	Bluegrass	12 (7)	20 (48)
16BEAT			MARCH/POLKA		
16Bt Stand.1	9 (0)	96 (64)	U.S.March 2/4	13 (0)	0 (32)
16Bt Stand.2	9 (1)	96 (32)	German Mrch 2/4	13 (1)	1 (48)
16Bt Stand.3	9 (2)	96 (48)	★OrgMarch2/4	13 (2)	0 (64)
16Bt Ballad	9 (3)	99 (96)	U.S.March 6/8	13 (3)	2 (16)
16Bt Rock	9 (4)	99 (112)	Orch.March2/4	13 (4)	0 (48)
16Bt Pop	9 (5)	107 (48)	Polka 2/4	13 (5)	4 (48)
BIG BAND/SWING			LATIN		
Stand.Swing	10 (0)	32 (48)	Rhumba	14 (0)	58 (32)
B.Band Ballad	10 (1)	39 (16)	Mambo	14 (1)	56 (32)
Orch.Swing	10 (2)	37 (0)	Cha Cha	14 (2)	57 (48)
Big Band Mid1	10 (3)	38 (48)	Simple Bossa	14 (3)	48 (48)
Big Band Mid2	10 (4)	38 (64)	Bossanova	14 (4)	48 (96)
Big Band Fast	10 (5)	36 (48)	Samba	14 (5)	51 (48)
Dixie	10 (6)	24 (32)	Beguine	14 (6)	59 (32)
Big Band Slow	10 (7)	38 (80)	★OrganRhumba	14 (7)	58 (48)
			Tango Contin.	14 (8)	53 (64)
			Organ Bossa★	14 (9)	48 (80)
			Organ Samba★	14 (10)	51 (64)
			Swingy Reggae	14 (11)	71 (32)
JAZZ COMBO			ROCK/DISCO		
Jazz Combo	11 (0)	34 (16)	Rock'n'Roll 1	0 (0)	80 (64)
Jazz Quartet	11 (1)	32 (64)	Rock'n'Roll 2	0 (1)	80 (32)
★Organ Jazz	11 (2)	34 (48)	8Bt Soul	0 (2)	87 (32)
Jazz Ballad 1	11 (3)	44 (16)	Disco 70's	0 (3)	121 (16)
Jazz Ballad 2	11 (4)	35 (16)	Disco Pop	0 (4)	123 (48)
Organ Blues★	11 (5)	38 (96)	House	0 (5)	125 (0)
Mod.Jazz Mid	11 (6)	40 (48)			
Jazz Waltz	11 (7)	46 (48)			






































RHYTHM

RHYTHM	MIDI PROGRAM CHANGE DATA		RHYTHM	MIDI PROGRAM CHANGE DATA	
	NORM	TECH		NORM	TECH
MODERN ROCK			TRAD		
Funk	1 (0)	110 (48)	Foxtrot	4 (0)	29 (96)
Jazz Funk	1 (1)	112 (48)	Modern Fox	4 (1)	30 (0)
Soul Rock	1 (2)	102 (48)	★Organ Fox	4 (2)	29 (112)
Carib.Rock	1 (3)	118 (48)	GospelShuffle	4 (3)	77 (64)
Samba Rock	1 (4)	117 (16)	Gospel 16Beat	4 (4)	100 (16)
Salsa	1 (5)	68 (48)	Hawaiian 1	4 (5)	22 (16)
			★Organ Ostep	4 (6)	28 (16)
			Hawaiian 2	4 (7)	23 (0)
ROCK (OTHERS)			WALTZ		
ShuffleBoogie	2 (0)	77 (32)	Simple Waltz	5 (0)	13 (0)
Shuffle Soul	2 (1)	77 (48)	StandardWaltz	5 (1)	11 (16)
ShuffleBallad	2 (2)	78 (16)	★Organ Waltz	5 (2)	8 (80)
Rock Ballad	2 (3)	74 (80)	Vienna Waltz	5 (3)	9 (32)
Soul R. Ballad	2 (4)	75 (32)	Orch. Waltz	5 (4)	8 (64)
Swing Rock	2 (5)	73 (16)	Swingy Waltz	5 (5)	12 (16)
SHOW TIME			ETHNIC		
Broadway Show	3 (0)	15 (32)	Dangdut	6 (0)	60 (64)
Showtime	3 (1)	15 (0)	Keroncong	6 (1)	60 (80)
★Organ Show	3 (2)	15 (16)	Talampong	6 (2)	60 (96)
BroadwaySwing	3 (3)	29 (80)	Degung Sunda	6 (3)	60 (112)
Hollywood	3 (4)	30 (16)			
Paris Ballad	3 (5)	74 (96)			
Cabaret	3 (6)	15 (48)			
Soft Shoe	3 (7)	24 (80)			
COMPOSER A			COMPOSER B		
Memory 1	15 (0)	0 (128)	Memory 7	7 (0)	6 (128)
Memory 2	15 (1)	1 (128)	Memory 8	7 (1)	7 (128)
Memory 3	15 (2)	2 (128)	Memory 9	7 (2)	8 (128)
Memory 4	15 (3)	3 (128)	Memory 10	7 (3)	9 (128)
Memory 5	15 (4)	4 (128)	Memory 11	7 (4)	10 (128)
Memory 6	15 (5)	5 (128)	Memory 12	7 (5)	11 (128)

•The numbers in parentheses () are bank data.

Program change number = Program change data+1

KEYBOARD PERCUSSION

		Other kits	MIDI NOTE NUMBER		Orchestral kit	MIDI NOTE NUMBER		General MIDI	MIDI NOTE NUMBER
			NORM	TECH		NORM	TECH		
		—	—	—	—	—	—	Bass Drum 2 *	35
		Bass Drum	36	36	Orchestral Bass Drum	36	36	Bass Drum 1	36
		Rim Shot	37	47	Rim Shot	37	47	Rim Shot	37
		Snare Drum 1	38	38	Orchestral Snare Drum 1	38	38	Snare Drum 1	38
		Special Snare Drum	39	31	Castanets	39	55	Hand Clap	39
		Snare Drum 2	40	32	Orchestral Snare Drum 2	40	32	Electric Snare	40
		Floor Tom	41	95	Triangle	41	57	Floor Tom Low	41
		Splash Cymbal	42	24	Cymbal Soft Mallet	42	24	Hi Hat Close	42
		Tom Low	43	41	Tambourine	43	53	Floor Tom High	43
		Crash Cymbal Low	44	51	Orchstral Cymbal 1	44	51	Hi Hat Pedal	44
		Tom Mid	45	43	Tam-Tam	45	30	Tom Low	45
		Crash Cymbal High	46	25	Orchstral Cymbal 2	46	25	Hi Hat Open	46
		Tom High	47	45	Rattle	47	58	Tom Mid	47
		Hi Hat Close 1	48	48	Tublar Bells C	48	84	Tom High 1	48
		Hi Hat Close 2	49	49	Tublar Bells C'	49	85	Crash Cymbal 1	49
		Hi Hat Open	50	50	Tublar Bells D	50	86	Tom High 2	50
		Ride Bell	51	28	Tublar Bells D'	51	87	Ride Cymbal 1	51
		Ride Cymbal	52	52	Tublar Bells E	52	88	Chinese Cymbal	52
		Conga Low	53	53	Tublar Bells F	53	89	Ride Bell	53
		Small Conga Low	54	54	Tublar Bells F'	54	90	Tambourine	54
		Conga High	55	55	Tublar Bells G	55	91	Splash Cymbal	55
		Small Conga High	56	56	Tublar Bells G'	56	92	Cowbell	56
		Conga Crash	57	57	Tublar Bells A	57	93	Crash Cymbal 2	57
		Metal Cabasa	58	58	Tublar Bells A'	58	94	Vibraslap	58
		Timbales Low	59	99	Tublar Bells B	59	95	Ride Cymbal 2	59
		Timbales High	60	100	Tublar Bells c	60	96	Bongo High	60
		Cowbell Low	61	66	Tublar Bells c'	61	97	Bongo Low	61
		Cowbell High	62	62	Tublar Bells d	62	98	Conga Mute Crash	62
		Agogo Low	63	102	Tublar Bells d'	63	99	Conga High	63
		Agogo High	64	101	Timpani E	64	64	Conga Low	64
		Samba Whistle Low	65	65	Timpani F	65	65	Timbales High	65
		Samba Whistle High	66	66	Timpani F'	66	66	Timbales Low	66
		Claves	67	67	Timpani G	67	67	Agogo High	67
		Slap	68	68	Timpani G'	68	68	Agogo Low	68
		Hand Clap	69	69	Timpani A	69	69	Cabasa	69
		Tambourine	70	74	Timpani A'	70	70	Maracas	70
		Shaker	71	96	Timpani B	71	71	Samba Whistle Short	71
		Triangle	72	108	Timpani c	72	72	Samba Whistle Long	72

* Sounds in SEQUENCER and MIDI function.

TECHNI-CHORD TYPE

<Example: C major chord>

Legend:
 ●: Played note (right-hand melody)
 ○: Added notes

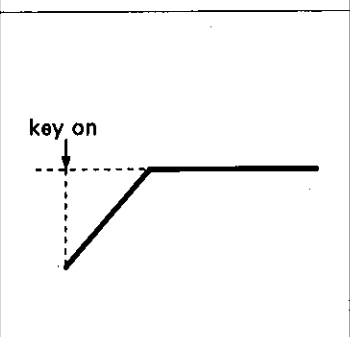
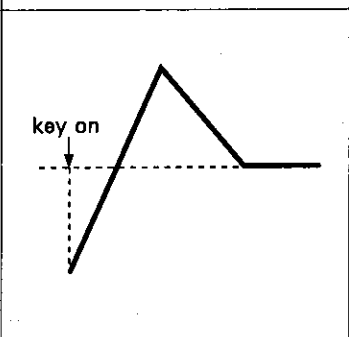
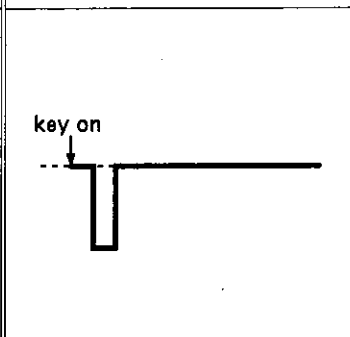
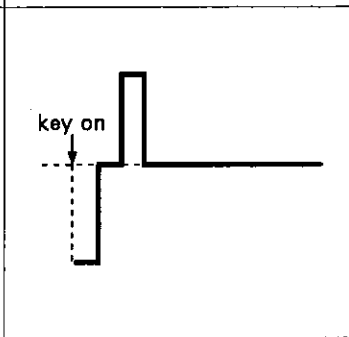
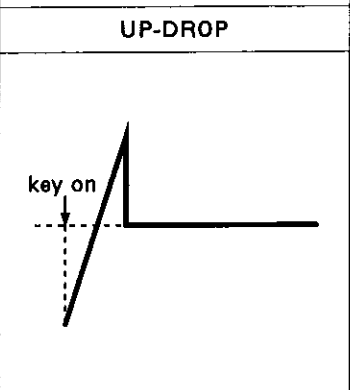
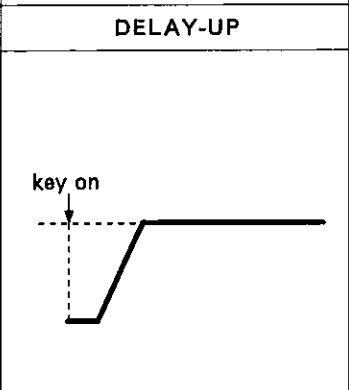
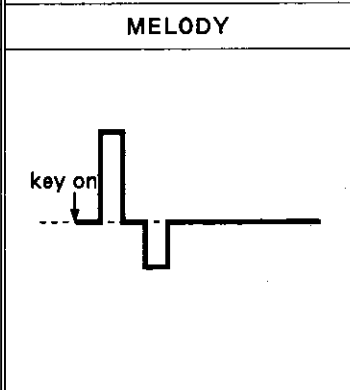
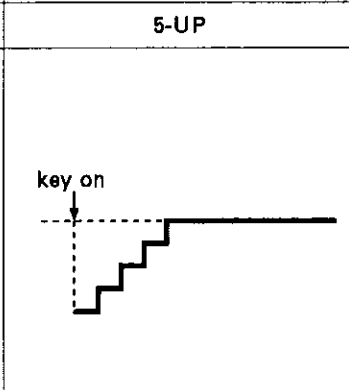
DIGITAL EFFECT

EFFECT	PARAMETER	RANGE	EFFECT	PARAMETER	RANGE
CELESTE1•2	DEPTH	0 - 50	ORGAN TREMOLO	DEPTH1	0 - 50
	SPEED	0 - 50		SPEED1	0 - 50
	DETUNE	-50 - +50		DEPTH2	0 - 50
	DELAY	0 - 50		SPEED2	0 - 50
CHORUS1•2	DEPTH	0 - 50	SINGLE DELAY	DELAY	0 - 50
	SPEED	0 - 50		DETUNE	-50 - +50
	DETUNE	-50 - +50		KEY SHIFT	-24 - +24
	DELAY	0 - 50		BALANCE	0 - 100
ENSEMBLE1•2	DEPTH1	0 - 50	REPEAT DELAY	SPEED	0 - 30
	SPEED1	0 - 50		DECAY	0 - 30
	DEPTH2	0 - 50		SUSTAIN	0 - 30
	SPEED2	0 - 50		RELEASE	0 - 30
TREMOLO	DEPTH	0 - 50	SOLO EFFECT1•2	DISTORTION	ON / OFF
	SPEED	0 - 50		TOUCH	0 - 50
	WAVE	SIN/TRI/SQR/SAW		DEPTH	0 - 100
	BALANCE	0 - 100			

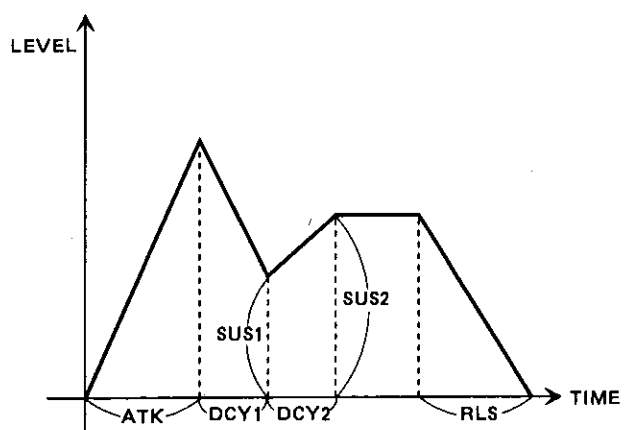
STONE

A	PIANO	F	ORGAN & ACCORDION	J	BASS	M	DRUMS & PERCUS
	Grand Piano Bright Piano Elect. Grand E. Piano 1 E. Piano 2 Modern E.P. (1) Modern E.P.2 (EA5)		Jazz Organ Full Drawbars Jazz Drawbars Pop Organ Organ 16' 16' & 8' 16' & 8' & 4' 16' & 1' Full Pipes Bourdon 16' (EA5) Diapason 16' Bour. & Diap. (EA5) Bour. 16' & 8' Pipe Trumpet (EA5) Pipe Fagot (EA5) Pipe Fg & Tp (EA5) Theatre Bass1 (EA5) Theatre Bass2 (EA5) Theatre Tuba (EA5) Brt. Accordion Mel. Accordion (EA5) Musette		Acoustic Bass Mellow A. Bass Electric Bass Bright E. Bass Funky E. Bass (EA5) Fretless Bass Picked E. Bass Rock Bass (EA5) Mute Bass Slap Bass Thumb Bass Analog Bass Wow Bass Synth Chopper		Rock Kick Jazz Kick Analog Kick Orch. Bass Drum Rock Snare Jazz Snare Soul Snare Orch. Snare Reverse Snare Melodic Tom Electric Tom Analog Tom Rim 1 Rim 2 Rim 3 Brush Short Brush Long H.H. Closed 1 H.H. Closed 2 H.H. Open 1 H.H. Open 2 Crash Cymbal 1 Crash Cymbal 2 Orch. Cymbal Ride Cymbal 1 Ride Cymbal 2 Ride Cymbal 3 Reverse Cymbal Conga 1 Conga 2 Bongo Timbales 1 Timbales 2 Samba Drum Claves Wood Block Slap Hand Claps Maracas Cabasa Shaker Guiro Short Guiro Long Cuica 1 Cuica 2 Triangle Mute Triangle Open Agogo Cowbell Tambourine Crickets Vibraslap Samba Whistle Wind Chime
B	HARPSI & MALLET						
	Harpsichord 1 Harpsichord 2 Clavi Synth Clavi Glocken 1 Glocken 2 Soft Glocken Vibraphone Tubular Bells Steel Drum Marimba Xylophone Bottle Marimba (EA5) African Mallet						
				K	SYNTH		
		G	BRASS		Sine Lead Sine Wave Tri. Wave (EA5) Sawtooth Wave Square Wave Pulse 20% Pulse 10% Pulse 5% Digi Wire Synth String Pulse Mod. (EA5) Mellow Ens.		
C	GUITAR		Brass Trumpet Orch. Trumpet (EA5) Mute Trumpet Flugel Horn Soft Flugel Bri. Trombone Mel. Trombone Orch. Trombone (EA5) Close Fr. Horn Open Fr. Horn Tuba Synth Brass Syn. Brass Ens				
	Classical Gtr Bright Ac. Gtr Folk Guitar Jazz Guitar Bright Solid Mellow Solid Funk Solid (EA5) Mute Guitar 1 Mute Guitar 2 Distortion Gtr Overdrive Gtr Gtr Harmonics Hawaiian Gtr Country Gtr						
				L	VARIOUS NOISE & WAVE		
D	SPECIAL PERCUS	H	REED		HiPass Noise 1 HiPass Noise 2 Sax Breath Shaku Breath Pipe Noise 1 (EA5) Pipe Noise 2 (EA5) Pick Noise 1 Pick Noise 2 Pick Noise 3 Fret Noise Gamelan (EA5) Scratch 1 Scratch 2 Click 1 Click 2 Click 3 Click 4		
	Banjo Harp Music Box Kalimba Sitar (EA5) Dulcimer Koto Shamisen Orchestra Hit Timpani		Soprano Sax Alto Sax Mel. Alto Sax Tenor Sax 1 Tenor Sax 2 Rock Tenor Sax Baritone Sax Jazz Clarinet Clas. Clarinet Soft Clarinet Synth Clarinet Oboe English Horn Bassoon Blues Harmonica				
E	STRINGS & VOCAL						
	Strings (1) Strings 2 (EA5) Pizzicato Violin Jazz Violin Viola Cello Bowed Bass Choir Ah Pop Vocal Ah Vocal Ooh 1 Vocal Ooh 2 Vocal Doo						
		I	FLUTE & ETHNIC			N	SOUND EFFECTS
			Piccolo Jazz Flute Classic Flute Alto Flute Recorder Ocarina Pan Flute Whistle Quena Shakuhachi				Gun Shot Bird Tweet Helicopter Telephone Applause Seashore

AUTOBEND & TRILL

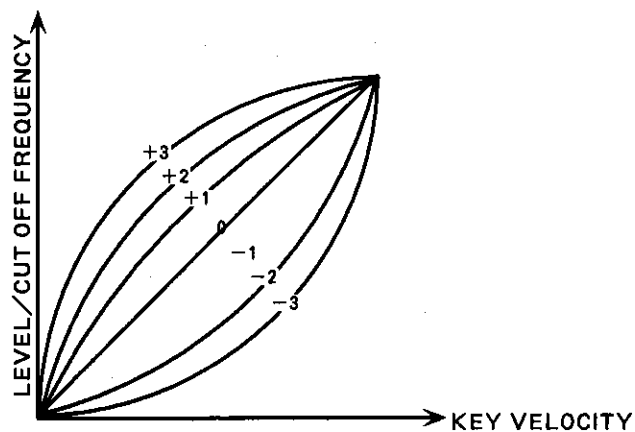
BEND		TRILL	
UP	UP-DOWN	DOWN-UP	UP-DOWN
			
UP-DROP	DELAY-UP	MELODY	5-UP
			

ENVELOPE



- ATK: Attack Time
- DCY1: Decay Time 1
- SUS1: Sustain Level 1
- DCY2: Decay Time 2
- SUS2: Sustain Level 2
- RLS: Release Time

TOUCH CURVE (FILTER)



MIDI Implementation Chart

Organ [SX-EA3/SX-EA5]

(Transmitted)

Function	U.SND1,2,SOLO (EA5) L.SND2,SOLO (EA5) PARTS	BASS (PEDAL)	L. SND1	K.B PERC (PART16)	U. ORGAN	L. ORGAN	ACMP1, ACMP2, ACMP3, BASS	DRUMS	CHORD	CONTROL	Remarks	
Basic Default	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	memorized	
Channel Changed	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16		
Mode Default	3	3	3	3	3	3	3	3	3	3	OMNI OFF,POLY MODE	
Mode Messages	×	×	×	×	×	×	×	×	×	×		
Mode Altered	—	—	—	—	—	—	—	—	—	—		
Note Number True voice	0-119	0-119	0-119	0-119	0-119	0-119	0-119	0-119	0-119	—	Changes depending on the position of the transpose control,octave shift,and drums type.	
Velocity Note ON	○	○	○	○	○	○	○	○	○	—		
Velocity Note OFF	×	×	×	×	×	×	×	×	×	—		
After Key's	×	×	×	×	×	×	×	×	×	—		
Touch Ch's	○*	○*	○*	×	×	×	×	×	×	—		
Pitch Bender	○*	○*	○*	×	×	×	○*	×	×	×		
Control Change	0,32 1 6,38 7 10 11 64 80 82 91 92 93 94 100,101 120 121	○×* ○* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×*	○×* ○* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×*	○×* ○* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×* ○×*	○×* ×	○×* ×	○×* ×	○×* ×	○×* ×	○×* ×	○×* ×	bank select MSB, LSB modulation data entry MSB, LSB volume panpot (EA5) expression sustain auto play chord intro, fill in, ending reverb tremolo digital effect Celeste RPN LSB, MSB all sound off reset all controllers
Prog Change True #	○×*	○×*	○×*	○×*	○×*	○×*	○×*	○×*	○×*	○*	Changes depending on program change mode and prog.cng to p.mem.	
System exclusive	○											
System common	Song Pos Song Sel Tune										○×* ○×* (0-19) ×	
System Real Time Commands	Clock										○	
Aux Messages	Local ON/ OFF All notes OFF Active Sense Reset										○ ○*	start/stop,continue
Notes	○×*.....Whether or not the data for each of these items is transmitted can be set. ○*.....Transmitted during SEQUENCER playback and during rhythm performance.											

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

○:Yes
×:No

MIDI Implementation Chart

Organ [SX-EA3/SX-EA5]

(Recognized)

Function		U.SND1,2,SOLO (EA5) L.SND2,SOLO (EA5) PARTS	BASS (PEDALS)	L SND1	K.B PERC (PART16)	U. ORGAN	L ORGAN	ACMP1, ACMP2, ACMP3, BASS	DRUMS	CHORD	CONTROL	Remarks
Basic	Default	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	memorized
Channel	Changed	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	
Mode	Default	3	3	3	3	3	3	3	3	3	3	OMNI OFF,POLY MODE
	Messages	X	X	X	X	X	X	X	X	X	X	
	Altered	-	-	-	-	-	-	-	-	-	-	
Note		0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	-	Changes depending on the position of the transpose control,octave shift,and drums type.
Number	True voice	0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	-	
Velocity	Note ON	○	○	○	○	○	○	○	○	○	-	
	Note OFF	X	X	X	X	X	X	X	X	X	-	
After	Key's	X	X	X	X	X	X	X	X	X	-	
Touch	Ch's	X	X	X	X	X	X	X	X	X	-	
Pitch Bender		○X*	○X*	○X*	X	X	X	○X*	X	○X*	X	
Control Change	0,32	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	bank select MSB, LSB modulation data entry MSB, LSB volume panpot (EA5) expression sustain auto play chord intro, fill in, ending reverb tremolo digital effect Celeste RPN LSB, MSB all sound off reset all controllers
	1	○X*	○X*	○X*	X	X	X	○X*	X	○X*	X	
	6,38	○X*	○X*	○X*	X	X	X	X	X	X	X	
	7	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	X	
	10	○X*	○X*	○X*	X	X	X	X	X	X	X	
	11	○X*	○X*	○X*	○X*	○X*	○X*	X	X	X	○X*	
	64	○X*	○X*	○X*	X	○X*	○X*	○X*	X	X	X	
	80	X	X	○X*	X	X	X	X	X	X	X	
	82	X	X	X	X	X	X	X	○X*	X	X	
	91	○X*	○X*	○X*	○X*	X	X	X	X	○X*	○X*	
	92	X	X	X	X	○X*	○X*	X	X	X	X	
	93	○X*	○X*	○X*	X	X	X	○X*	X	○X*	X	
	94	X	X	X	X	○X*	○X*	X	X	X	X	
100,101	○X*	○X*	○X*	X	X	X	X	X	X	X		
120	○	○	○	○	○	○	○	○	○	X		
121	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	X		
Prog		○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	○X*	X	Changes depending on program change mode and prog.cng to p.m
Change	True #	0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	0-127	X	
System exclusive		○										
System common	Song Pos	○X*										
	Song Sel	○X* (0-19)										
	Tune	X										
System	Clock	○										
Real Time	Commands	○X*										start/stop,continue
Aux	Local ON/OFF	X	X	X	X	X	X	X	X	X	-	
	All notes OFF	○	○	○	○	○	○	○	○	○	-	
Messages	Active Sense	○										
	Reset	X										
Notes	○X*.....Whether or not the data for each of these items is received can be set.											

Mode 1: OMNI ON, POLY

Mode 2: OMNI ON, MONO

○:Yes

Mode 3: OMNI OFF, POLY

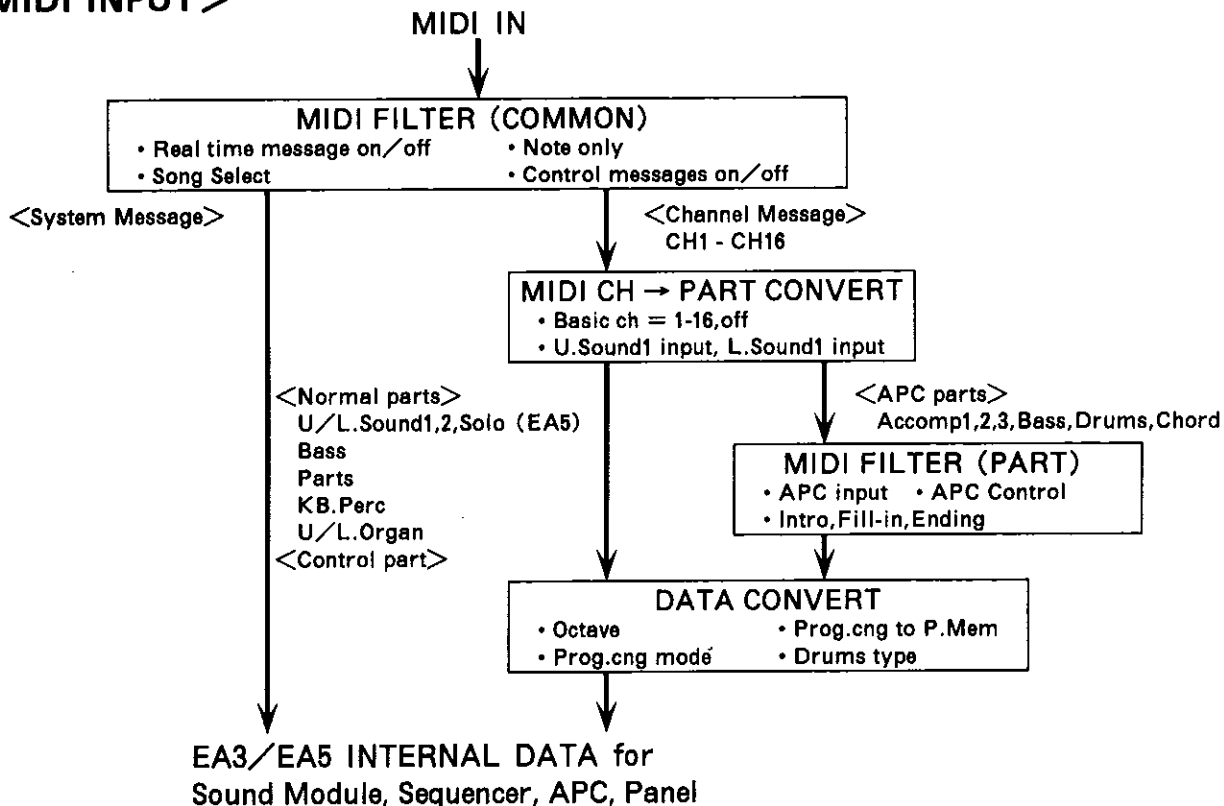
Mode 4: OMNI OFF, MONO

X:No

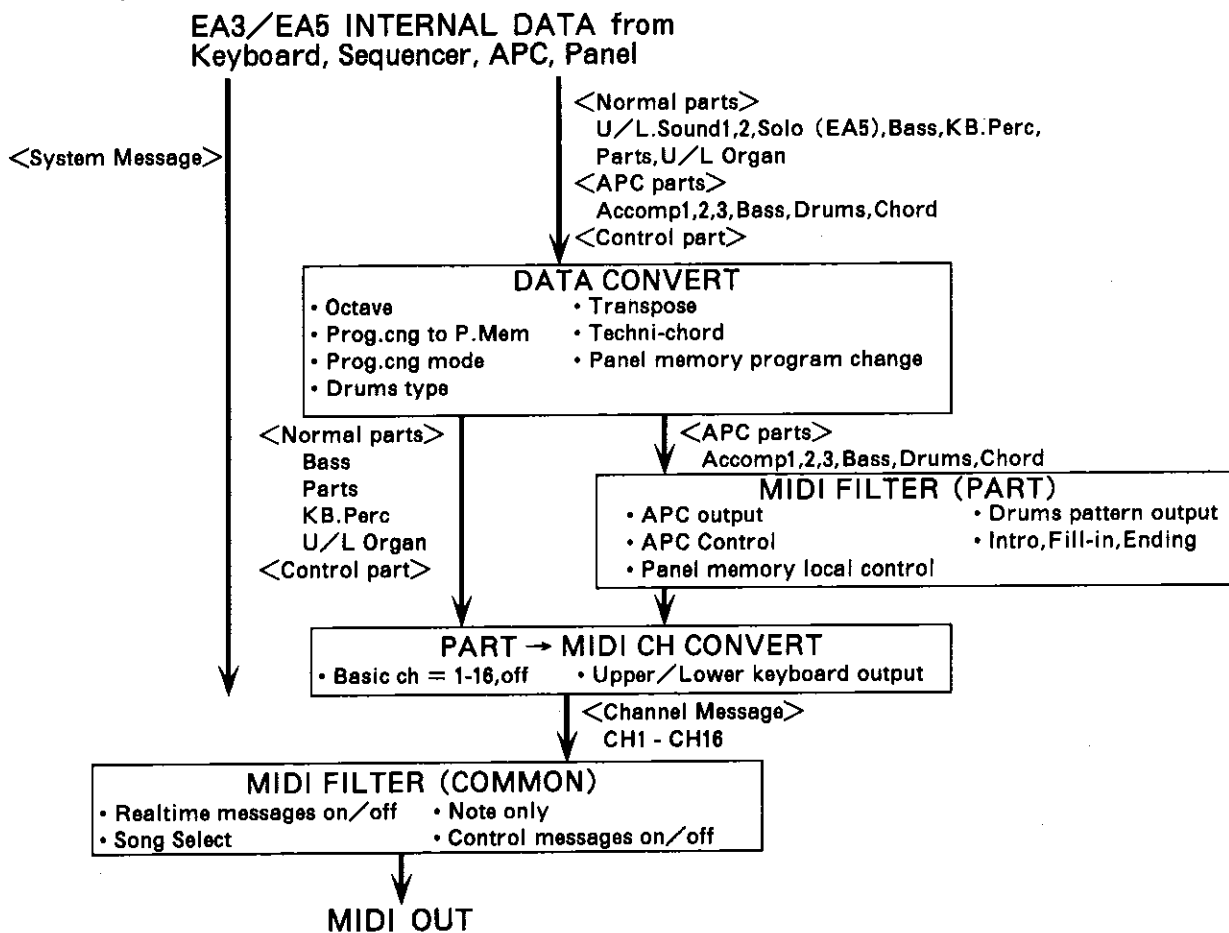
MIDI DATA FORMAT

MIDI DATA FLOWCHART

<MIDI INPUT>



<MIDI OUTPUT>



Message format

■ Channel voice message

Note off

8nH	Note off status
kk	Note number
vv	Velocity

- n: 0-F Basic channel
 kk: 00H-7FH Note number
 vv: 00H-7FH Velocity
 • This status is not used during transmission; rather, velocity=0 is transmitted with the note on status.

Note on

9nH	Note on status
kk	Note number
vv	Velocity

- n: 0-F Basic channel
 kk: 00H-7FH Note number
 vv: 01H-7FH Velocity
 00H Note off

Control Change

Bank select

BnH	Control change status
00H	Bank select (MSB)
mm	Bank select value (MSB)
(BnH)	Control change status
20H	Bank select (LSB)
11	Bank select value (LSB)

- n: 0-F Basic channel
 mm,11: 00H-7FH
 • Indicates program change bank. Used when program Change mode is set to Normal mode or Technics mode.
 • Transmission/reception of ACCOMP 1,2,3, and BASS bank select is possible only during COMPOSER record.

Modulation

BnH	Control change status
01H	Modulation
vv	Modulation depth value

- n: 0-F Basic channel
 vv: 00H-7FH
 • Transmission of ACCOMP 1,2,3 BASS and DRUMS modulation is possible only when the rhythm is on, and transmission/reception only during COMPOSER record.

Volume

BnH	Control change status
07H	Part volume
vv	Part volume value

- n: 0-F Basic channel
 vv: 00H-7FH

Data entry

BnH	Control change status
06H	Data entry (MSB)
mm	Data entry value (MSB)
(BnH)	Control change status
26H	Data entry (LSB)
11	Data entry value (LSB)

- n: 0-F Basic channel
 mm,11: Values conform to the parameters specified for the RPN.

Panpot

BnH	Control change status
0AH	Panpot
vv	Panpot value

- n: 0-F Basic channel
 vv: 00H(Left)-40H(Center)-7FH(Right)

Expression

BnH	Control change status
0BH	Expression
vv	Expression value

- n: 0-F Basic channel
 vv: 00H-7FH

Sustain

BnH	Control change status
40H	Sustain
vv	Sustain on/off

- n: 0-F Basic channel
 vv: 00H-3FH (00H) Off
 40H-7FH (7FH) On
 • Transmission of ACCOMP 1,2,3 and BASS sustain is possible only when the rhythm is on, and transmission/reception only during COMPOSER record.

Auto play Chord

BnH	Control change status
50H	APC message
vv	APC message value

- n: 0-F Basic channel
 vv: 00H = Off
 01H = Fingered
 02H = One-Finger
 03H = PIANIST
 • Transmitted/received on the basic channel for the LOWER SOUND 1 part.

Rhythm Control

BnH	Control change status
52H	Rhythm control message
vv	Rhythm control data

n: 0-F Basic channel
 vv: 00H = off
 01H = FILL IN 1
 02H = ENDING
 03H = INTRO
 05H = FILL IN 2
 07H = COUNT INTRO

• Transmitted / received on the basic channel for the DRUMS part.

Reverb

BnH	Control change status
5BH	Reverb
vv	Reverb on/off

n: 0-F Basic channel
 vv: 00H-3FH (00H) Off
 40H-7FH (7FH) On

• Transmitted data is indicated by parentheses().
 • The Reverb for the CONTROL part is the total reverb.
 • The reverb on/off data for the U.Organ and L.Organ is transmitted/received on the basic channel for the U.Organ part.

Tremolo

BnH	Control change status
5cH	Tremolo
vv	Tremolo on/off

n: 0-F Basic channel
 vv: 00H-3FH (00H) Off
 40H-7FH (7FH) On

• Transmitted / received on the basic channel for the Upper/Lower Organ part.

Digital effect

BnH	Control change status
5DH	Digital effect
vv	Digital effect on/off

n: 0-F Basic channel
 vv: 00H-3FH (00H) Off
 40H-7FH (7FH) On

• Transmitted data is indicated by parentheses().
 • Transmission/reception of the DIGITAL EFFECT for ACCOMP 1,2,3 and BASS is possible only during COMPOSER record.

Celeste

BnH	Control change status
5EH	Celeste
vv	Celeste on/off

n: 0-F Basic channel
 vv: 00H-3FH (00H) Off
 40H-7FH (7FH) On

• Transmitted data is indicated by parentheses().
 • Transmitted / received on the basic channel for the Upper/Lower Organ part.

RPN

BnH	Control change status
65H	RPN (MSB)
mm	RPN data number (MSB)
(BnH)	Control change status
64H	RPN (LSB)
11	RPN data number (LSB)

n: 0-F Basic channel
 mm,11: The most significant byte (MSB) and least significant byte (LSB) of the parameter number specified for the RPN.

The RPN which can be transmitted/received are Pitch Bend Sensitivity, Coarse Tuning (corresponding respectively to the Pitch bend Range and Key Shift of the EA), Fine Tuning, and RPN reset.

RPN		Data Entry		
MSB	LSB	MSB	LSB	
00H	00H	mm	---	Pitch Bend Sensitivity mm:00H-0CH (0-12semi-tones) 11: ignored • Up to 1 octave can be specified in semi-tone increments.
00H	01H	mm	11	Fine Tuning mm,11:00H,00H-40H,00H-7FH,7FH (-128*100/128-0-127*100/128cents) • 11:00H or 40H (lower 6 bits ignored) • Can be specified in 100/128 cent
00H	02H	mm	---	Coarse Tuning mm, 34H-40H-4CH (-12-0-+12 semi-tones) 11: ignored • Up to 1 octave can be specified in semi-tone increments.
7FH	7FH	---	---	RPN Reset mm,11: ignored • For when the RPN number is not specified. • The internal set value does not change.

Program Change

CnH	Program change status
pp	Program change value

- n: 0-F Basic channel
 pp: 00H-7FH Program change value
 Normal mode: Numbers are correspond to the SW of the SOUND GROUP(the variation is indicated by the Bank Select).
 Technics mode: Numbers are standardized among Technics modes(Bank Select also used).
 GM:GM program change numbers.
 •The Program Change for the Drums part is recognized as a change in the rhythm pattern select.
 •Transmission/reception of ACCOMP 1,2,3,and BASS program change is possible only during COMPOSER record.
 •When PROG.CNG TO P.MEM is ON, the PANEL MEMORY numbers are transmitted/received on the basic channel for the U.SOUND 1 part.

Channel pressure (After Touch)

DnH	Channel pressure status
VV	Channel pressure value

- n: 0-F Basic channel
 vv: 00H-7FH

Pitch bend change

EnH	Pitch bend status
11	Pitch bend value (LSB)
mm	Pitch bend value (MSB)

- n: 0-F Basic channel
 11,mm: 00H-7FH Pitch bend data
 •The Pitch Bend Range is determined by the Pitch Bend Range(Pitch Bend Sensitivity)of each part.
 •Transmission of ACCOMP 1,2,3 and BASS Pitch bend change is possible only when the rhythm is on, and transmission/reception only during COMPOSER record.

■ Channel mode message Change

All sound off

BnH	Channel mode status
78H	All sound off
00H	Dummy data

- n: 0-F Basic channel

Reset all controllers

BnH	Channel mode status
79H	Reset all controllers
00H	Dummy data

- n: 0-F Basic channel

All note off

BnH	Channel mode status
7BH	All note off
00H	Dummy data

- n: 0-F Basic channel
 Receive only

OMNI off

BnH	Channel mode status
7CH	OMNI off
00H	Dummy data

- n: 0-F Basic channel
 •Processed in same manner as when ALL Note off is received.

OMNI on

BnH	Channel mode status
7DH	OMNI on
00H	Dummy data

- n: 0-F Basic channel
 •Processed in same manner as when ALL Note off is received. Does not change to OMNI on.

MONO

BnH	Channel mode status
7EH	MONO
00H	Dummy data

- n: 0-F Basic channel
 •Processed in same manner as when ALL Note off is received. Does not change to MONO.

POLY

BnH	Channel mode status
7FH	POLY
00H	Dummy data

- n: 0-F Basic channel
 •Processed in same manner as when ALL Note off is received.

■ System common message

Song position pointer

F2H	Song position pointer
11	Least significant
mm	Most significant

- 11,mm: 00H - 7FH

Song select

F3H	Song select
ss	Song number

- ss: 0-19

■ System real time message

Timing Clock

F8H	Timing clock
-----	--------------

Start

FAH	Start
-----	-------

Continue

FBH	Continue
-----	----------

Stop

FCH	Stop
-----	------

Active Sence

FEH	Active sense
-----	--------------

System exclusive

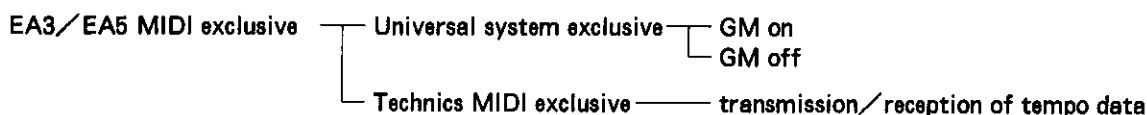
F0H	System exclusive status
ii	ID number
dd	data
:	:
dd	data
F7H	End of exclusive status

ii: 7EH(universal non-real time ID),
50H(Technics ID)

dd: 00H-7FH

About the EA3/EA5 MIDI exclusive

Outline of EA3/EA5 MIDI exclusive



Universal system exclusive Message format

Turn General MIDI System On:

F0H	Exclusive status
7EH	Universal Non-Real Time SysEx
7FH	ID of target device (7F:Broadcast)
09H	sub-ID # 1 = General MIDI message
11H	sub-ID # 2 = General MIDI on
F7H	EOX

Turn General MIDI System Off:

F0H	Exclusive status
7EH	Universal Non-Real Time SysEx
7FH	ID of target device (7F:Broadcast)
09H	sub-ID # 1 = General MIDI message
02H	sub-ID # 2 = General MIDI off
F7H	EOX

Technics MIDI exclusive Message format

■Type of message and their forms

SOX	Exclusive status
IDC	Technics ID number
CMD	Command ID
PC	Category ID
MD	Model differentiating ID
VER	Exclusive version ID
[data]	Body of data
EOX	End of exclusive

Messages are transmitted in order, beginning with SOX, IDC, etc. and continuing to the end. The form of the transmission message differs depending on the type of command.

■ Explanation of messages

SOX: Indicates the start of exclusive

F0H	Exclusive status
-----	------------------

IDC: Product manufacturer differentiating ID

50H	Technics ID number
-----	--------------------

CMD: Indicates type of transmission data and commands.

25H	TMP: Tempo data
-----	-----------------

[data]: Body of data

•[data] for Tempo.

DT1	Data LSB
DT2	Data MSB

DT2, DT1 : 02H, 08H - 12H, 0CH

(J = 40-300)

Tempo data is 9bit Binary (= 101000 ~ 100101100)

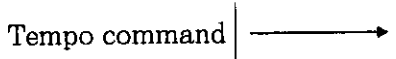
The lower 4 bits is expressed as DT1, and the remaining upper 5 bits as DT2. DT1 is sent first followed by DT2.

■ The form of the transmission message

Function	SOX =F0H	IDC =50H	CMD	[data]	EOX =F7H
Tempo data	SOX	IDC	TMP	DT1 DT2	EOX

Communication sequence between master unit and slave unit

■ Sequencer of tempo data communication



- Transmission/reception of TEMPO exclusive data can be enabled or disabled by the NOTE ONLY setting of the MIDI settings.

GENERAL MIDI SETTINGS

■SOUND

P.CNG#	SOUND NAME	P.CNG#	SOUND NAME	P.CNG#	SOUND NAME	P.CNG#	SOUND NAME
1	Grand Piano (1)	33	Acoustic Bass (1)	65	Soprano Sax (1*)	97	Ice Rain (2)
2	Bright Piano (1)	34	Bright E.Bass (1)	66	Alto Sax (1*)	98	Soundtrack (2)
3	Elect.Grand (1*)	35	Picked E.Bass (1)	67	Breathy Tenor (1*)	99	Synth Glocken (2*)
4	Honky Tonk (2*)	36	Fretless Bass (2)	68	Baritone Sax (1*)	100	Atmosphere (2*)
5	E.Piano 1 (2)	37	Slap Bass<1> (1)	69	Oboe (1)	101	Mist (2*)
6	Modern E.P.1 (2*)	38	Slap Bass 2 (1)	70	English Horn (1)	102	Goblins (2*)
7	Harpichord (1*)	39	Wow Bass (1)	71	Bassoon (1)	103	Click Vox (2*)
8	Clavi (1)	40	Synth Chopper (1)	72	Jazz Clarinet (1*)	104	Star Theme (2*)
9	Celesta (2*)	41	Violin (1)	73	Piccolo (1*)	105	Sitar (2)
10	Glockenspiel (1*)	42	Viola (1*)	74	Jazz Flute (1*)	106	Banjo (1*)
11	Music Box (1)	43	Cello (1)	75	Recorder (1)	107	Shamisen (1)
12	Vibraphone (2*)	44	Bowed Bass (1)	76	Pan Flute (1*)	108	Koto (1)
13	Marimba (2)	45	Tremolo String (2)	77	Blown Bottle (2*)	109	Kalimba (1*)
14	Xylophone (1*)	46	Pizzicato (2)	78	Shakuhachi (1*)	110	Bagpipe (1)
15	Tubular Bells (2)	47	Harp (1*)	79	Whistle (1)	111	Country Fiddle (2)
16	Dulcimer (2*)	48	Timpani (1)	80	Ocarina (1)	112	Shanai (2*)
17	Full Drawbars (2)	49	Strings (1)	81	Square Lead (2)	113	Tinkle Bell (2)
18	Jazz Organ (2)	50	Slow Strings (1)	82	Saw Lead (2)	114	Agogo (1)
19	Rock Organ (2*)	51	Synth Strings (2*)	83	Synth Calliope (2*)	115	Steel Drum (1*)
20	Pipe Organ (2)	52	Synth Strings 2 (2*)	84	Chiffer Lead (2*)	116	Wood Block (1)
21	Harmonium (2)	53	Pop Vocal Ah (1)	85	Charang (2*)	117	Taiko Drum (1)
22	Bri.Accordion (2)	54	Vocal Doo (2)	86	Air Vox (2*)	118	Melodic Tom (1)
23	Blues Harmonica (1)	55	Synth Vocal (1*)	87	5th Wave (2)	119	Synth Drum (1)
24	Bandneon (2)	56	Orchestra Hit (1)	88	Bass & Lead (2)	120	Reverse Cymbal (1)
25	Bright Ac.Gtr (1)	57	Trumpet (1)	89	Fantasia (1*)	121	Fret Noise (1)
26	Folk Guitar (1*)	58	Bri.Trombone (1)	90	Mellow Ens. (2*)	122	Breath Noise (1)
27	Jazz Guitar (1*)	59	Tuba (1)	91	Polysynth (2*)	123	Seashore (1)
28	Bright Solid (2*)	60	Mute Trumpet (1)	92	Spacy Pad (2)	124	Bird Tweet (2)
29	Mute Guitar (2*)	61	Open Fr.Horn (1)	93	Crystal Ens. (2*)	125	Telephone (1)
30	Overdrive Gtr (1*)	62	Brass (1)	94	Metal Pad (2)	126	Helicopter (2)
31	Distortion Gtr (2*)	63	Syn.Brass Ens (2)	95	Halo Pad (2*)	127	Applause (1)
32	Gtr Harmonics (2*)	64	Synth Brass (2*)	96	Sweep Pad (2*)	128	Gun Shot (1)

()=Number of Tones

* =SUB Tone is used. Depending on the sound output status of the instrument, it may be generated.

<1>=Sound number of only EA5

■Parts

MIDI CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PART	US1	US2	P3(EA3) USL(EA5)	LS1	LS2	P7(EA3) LSL(EA5)	BAS	P8	P9	KBP	P11	P12	P13	P14	P15	P10
SEQUENCER TRACK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

■Non-working Function

ONE TOUCH PLAY/MUSIC STYLE SELECT, MUSIC STYLE ARRANGER, TECHNI-CHORD, AUTO PLAY CHORD, COMPOSER, SOUND EDIT

MIDI PRESET DATA

		Without APC										With APC										
Master ↓ Slave		EA				Keyboard		PR series		PX	Ext SEQ	EA				Keyboard		PR series		PX	Ext SEQ	
		Keyboard type1	Keyboard type2	PX	Sound module (GM)	Ext SEQ	type1	type2	type1	type2	EA	Keyboard type1	Keyboard type2	Sound module (GM)	Ext SEQ	EA	Keyboard type1	Keyboard type2	PR series type1	PR series type2	PX	Ext SEQ
Basic channel	U SOUND1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	off	1		
	U SOUND2	2	4	off	2	2	2	4	4	4	2	2	2	4	2	2	4	4	4	2	2	
	3 (EA3) U SOLO(EA5)	7	7	off	3	3	7	7	7	7	3	3	7	7	3	3	7	7	7	3	3	
	L SOUND1	4	2	off	4	4	4	2	2	2	4	4	4	2	4	4	4	2	2	4	4	
	L SOUND2	5	5	off	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	7 (EA3) L SOLO(EA5)	8	8	off	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	BASS	3	3	off	7	7	3	3	3	3	7	7	3	3	7	7	3	3	3	3	7	7
	U ORGAN	13	13	off	off	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	L ORGAN	14	14	off	off	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
	K.PERC	15	15	off	10	16	15	16	15	16	16	16	16	16	16	16	16	16	16	16	16	16
	8	8	8	off	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	9	9	9	off	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	10	10	10	off	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	11	11	11	off	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	12	12	12	off	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	off
13	off	off	off	13	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
14	off	off	off	14	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
15	off	off	off	15	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
Control	16	15	off	off	15	16	15	16	15	15	15	16	15	off	15	16	15	16	15	15	15	
Accomp1																						
Accomp2																						
Accomp3																						
Bass	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
Drums	15	16	10	16	15	16	15	16	15	16	16	16	16	16	16	16	16	16	16	16	16	
Chord	5	5	off	12	5	5	5	5	5	1	12	5	5	5	5	5	5	5	1	12	12	
Octave shift	all ch.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Local setting	all ch.	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	
Program change Bank select, Pitch Bend, Volume, Expression, Panpot, Sustain, Effect/Reverb, Modulation, Tuning, Bend range, Reset all controller		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	
After touch		off	off	off	off	on	off	off	off	off	off	on	off	off	off	off	off	off	off	off	on	
Realtime message Clock		on int	on int	on int	on int	on int	on int	on int	on int	on int	on int	off ext	on int	on int	on int	on ext	on ext	on ext	on ext	on int	off ext	
Upper Sound1 input		Cndct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Cndct	Cndct	Dirct	
Lower Sound1 input		Cndct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Dirct	Cndct	Cndct	Cndct	Cndct	Cndct	Dirct	
Auto Play Chord input		off	off	off	off	off	off	off	off	off	off	off	on	on	on	on	on	on	on	on	on	
Output mode Upper		Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	USnd1	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	USnd1	
Output mode Lower		Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	LSnd1	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	Cndct	LSnd1	
Techni-chord output		off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
Drum pattern output		off	off	off	off	off	off	off	off	off	off	off	on	on	on	on	on	on	on	on	on	
Auto Play Chord output		off	off	off	off	off	off	off	off	off	off	off	on	on	on	on	on	on	on	on	on	
P.ong → P.Mem P.Mem → P.ong Note only		off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
Intro/Fill/Ending		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	
APC control		off	off	off	off	off	off	off	off	off	off	off	on	on	on	on	on	on	on	on	on	
Transpose		off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
Program change mode		TECH	TECH	NORM	GM	TECH	TECH	TECH	TECH	TECH	NORM	TECH	TECH	TECH	GM	TECH	TECH	TECH	TECH	TECH	NORM	TECH
Drums mode		TECH	TECH	NORM	GM	TECH	TECH	TECH	TECH	TECH	NORM	TECH	TECH	TECH	GM	TECH	TECH	TECH	TECH	TECH	NORM	TECH
Song select		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	

type1 : Setting used when the connected equipment does not have the MIDI PRESETS capability.

type2 : Setting used when the connected equipment has the MIDI PRESETS capability, and the MIDI PRESETS are specified both on this instrument and on the connected equipment.

QCG0233A
Se0195F0