



リファレンスガイド

Reference Guide

Model XT-100/XH-200

< PROCHORD TYPE CHART >

BASIC ProChord Types	Prochord Type	Harmony Style	Voicing
	Closed	Adds full chords to your right hand single finger melody, when a chord is being played with the left hand.	Current registration (incl. Drawbars, Orchestral, Custom & Ensemble Voices).
	Open	This creates the Open or Theatre-Organ style harmony. This is most effective when used on the upper half of the Upper Manual.	
HARMONIC Prochord Types	Prochord Type	Harmony Style	Default Voicing
	Duet	2-part	Flute Nylon String Guitar
	Block 1	5-part closed	Vibraphone Piano Jazz Guitar
	Block 2	5-part closed	Clarinet Alto Sax p Alto Sax f
	Big Band Saxes	5-part open	Alto Sax f Tenor Sax Baritone Sax
	Big Band	5-part open	Trumpet Alto Sax f Trombone Tenor Sax
	Small Combo 1	3-part closed	Piano Vibraphone Jazz Guitar
	Small Combo 2	3-part closed	Flute Piano Jazz Guitar
	Small Combo 3	3-part closed	Trumpet Clarinet Trombone
	Theatre	3-part open	Theatre Organ 1
	Hymn	4-part hymn voicing	Church Organ
	Quartet 1	4-part open	Trumpet Alto Sax f Trombone Tenor Sax
	Quartet 2	4-part open, wide voicing	Trumpet Alto Sax f Trombone Baritone Sax
	Jazz Brass	5-part voicing in fourths	Trumpet Trombone
	Strings	4-part closed with octave melody	Strings 2
	Harmonic Chimes	Chime voicing	Organ Harp
	Old Time	4-part block voicing	Piano
	4-part Closed	4-part closed	Jazz Accordion
	5-part Open	5-part open	Theatre Organ 2

MIDI Implementation NRPN Data Chart(1/2)

GLOBAL PARAMETER					PRESET PARAMETER				
FUNCTION	NRPN		DATA RANGE		FUNCTION	NRPN		DATA RANGE	
	MSB (63H)	LSB (62H)	MSB (06H)	LSB (26H)		MSB (63H)	LSB (62H)	MSB (06H)	LSB (26H)
Rhythm Style Sw.	46	00	00 to 0F *10	--	Vibrato Rate	00	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Variation Sw.	14	00	00 to 03 (A, B, C, D)	--	Vibrato Depth	01	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Auto Vari	4C	00	00,01 (Off, On)	--	Vibrato Delay	02	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Intro/Ending	19	00	00,01 (Off, On)	--	Attack Time	03	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Fill In	4D	00	00,01,02 (Off, Fill1, Fill2)	--	Decay Time	04	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Autoband 1	48	00	00,01 (Off, On)	--	Release Time	05	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Autoband 2	49	00	00,01 (Off, On)	--	Chorus Level	06	02	00 to 7F (0 to 127)	*12
Rhythm Autochord	4A	00	00,01 (Off, On)	--	Fine Tune	07	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Rhythm Autobass	4E	00	00,01 (Off, On)	--	Key Shift	08	02	28 to 58 (-24 ~ 0 ~ +24)	*12
Memory	1B	00	00,01 (Off, On)	--	Cutoff	09	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Easy Play System	1F	00	00,01 (Off, On)	--	Resonance	0A	02	00 to 7F (-64 ~ 0 ~ +63)	*12
Touch Start	4B	00	00,01 (Off, On)	--	Orchestral	60	00	00 to 02 (Off, UM, LM)	--
Start/Stop Sw.	4F	00	00,01 (Off, On)	--	Orch. Solo	62	00	00,7F(Off, On)	--
Style No.	47	00	00 to 17 (0 to 23) *10	--	Orch. Mono	64	00	00,7F(Off, On)	--
Rhythm Volume	28	00	00 to 7F (0 to 127)	--	Orch. Octave	3E	00	00,7F(Off, On)	--
Accomp Volume	29	00	00 to 7F (0 to 127)	--	Orch. Chorus	61	00	00,7F(Off, On)	--
Rhythm Panpot	2A	00	00 to 7F (-64 ~ C ~ +63)	--	Orch. Tone Control	63	00	00,7F(Off, On)	--
Accomp Panpot	2B	00	00 to 7F (-64 ~ C ~ +63)	--	Orch. Effect Control	65	00	00,7F(Off, On)	--
Auto Vari Mode	27	00	00,01,02 (Auto, Prog, Fill)	--	Orch. Voice Sw.	44	00	00 to 1D (0 to 29) *2	--
Auto Vari Measure	2E	00	00 to 05 (1, 2, 4, 8, 12, 16)	--	Orch. Custom1 Voice	68	00	*1	*1
Leslie Thru	6E	00	00,01 (Through, Brake)	--	Orch. Custom2 Voice	69	00	*1	*1
Les. Slowspeed Horn	70	00	00 to 24 (0, 15 to 120 rpm)	--	Orch. Volume	35	00	00 to 7F (0 to 127)	--
Les. Slowspeed Bass	71	00	00 to 24 (0, 15 to 120rpm)	--	Orch. Panpot	6A	00	00 to 7F (-64 ~ 0 ~ +63)	--
Les. Fastspeed Horn	72	00	00 to 43 (0, 300 to 498 rpm)	--	Orch. Velocity	6B	00	00 to 06 (OFF, 1 to 6)	--
Les. Fastspeed Bass	73	00	00 to 43 (0, 300 to 498 rpm)	--	Orch. Detune Depth	6F	00	00 to 7F (0 to 127)	--
Les. Risetime Horn	74	00	00 to 18 (0.2 to 5.0 sec)	--	Orch. Detune Offset	7E	00	00 to 7F (0 to 127)	--
Les. Risetime Bass	75	00	00 to 18 (0.2 to 12.5 sec)	--	Orch. Detune Width	7F	00	00 to 7F (0 to 127)	--
Les. Falltime Horn	76	00	00 to 18 (0.2 to 5.0 sec)	--	Custom UM	23	00	00,7F(Off, On)	--
Les. Falltime Bass	77	00	00 to 18 (0.2 to 12.5 sec)	--	Cus. LM	21	00	00,7F(Off, On)	--
Les. Beaketime Horn	78	00	00 to 18 (0.2 to 5.0 sec)	--	Cus. UM Solo	20	00	00,7F(Off, On)	--
Les. Braketime Bass	79	00	00 to 18 (0.2 to 12.5 sec)	--	Cus. LM Solo	22	00	00,7F(Off, On)	--
Les. Hornvolume	7A	00	00 to OC (0 to -12 dB)	--	Cus. UM Tone Control	55	00	00,7F(Off, On)	--
Les. Bassvolume	7B	00	00 to OC (0 to -12 dB)	--	Cus. LM Tone Control	56	00	00,7F(Off, On)	--
Les. Mic Angle	7C	00	00 to 06 (0 to 180 deg)	--	Cus. UM Cutoff	47	01	00 to 7F (-64 ~ 0 ~ +63)	--
Les. Mic Distance	7D	00	00 to 08 (0.3 to 2.7 m)	--	Cus. LM Cutoff	48	01	00 to 7F (-64 ~ 0 ~ +63)	--
Manual Balance	01	00	00 to 08	--	Cus. UM VoiceNo.	41	00	*1	*1
Master Tuning	02	00	00 to 14 (A=430 to 450)	--	Cus. LM VoiceNo.	43	00	*1	*1
Transpose	03	00	00 to OC (-6 to 6)	--	Cus. UM Volume	33	00	00 to 7F (0 to 127)	--
Rhythm Reverb	44	01	00 to 7F (0 to 127)	--	Cus. LM Volume	34	00	00 to 7F (0 to 127)	--
Main Echo	04	00	00 to 02(Off, Main, EchoOnly)	--	Cus. UM Panpot	36	00	00 to 7F (-64 ~ 0 ~ +63)	--
Reverb Type	05	00	00 to 03 (Room, Hall, Church, Plate)	--	Cus. LM Panpot	37	00	00 to 7F (-64 ~ 0 ~ +63)	--
Tempo	0A	00	28 to 12C (40 to 300) MSB	28 to 12C LSB	Cus. UM Velocity	31	00	00 to 06 (Off, 1 to 6)	--
Preset No.	40	00	00 to 0A (Cancel, 1 to 10) *11	--	Cus. LM Velocity	32	00	00 to 06 (Off, 1 to 6)	--
Tunemode	10	00	00,01(E-Tempera, B-3 Pitch)	--	Ensemble UM1	24	00	00,7F(Off, On)	--
Preset Bank No.	11	00	00 to 09 *11	--	Ensemble UM2	25	00	00,7F(Off, On)	--
					Ensemble LM1	00	01	00,7F(Off, On)	--
					Ensemble LM2	01	01	00,7F(Off, On)	--
					Ens. UM Chorus	02	01	00,7F(Off, On)	--
					Ens. LM Chorus	03	01	00,7F(Off, On)	--
					Ens. UM Detune Depth	04	01	00 to 7F (0 to 127)	--
					Ens. LM Detune Depth	05	01	00 to 7F (0 to 127)	--
					Ens. UM1 VoiceNo.	06	01	*1	*1
					Ens. UM2 VoiceNo.	07	01	*1	*1

MIDI Implementation NRPN Data Chart(2/2)

*1~11 : Refer to the attached table

PRESET PARAMETER				
FUNCTION	NRPN		DATA RANGE	
	MSB (63H)	LSB (62H)	MSB (06H)	LSB (26H)
Ens. LM1 VoiceNo.	08	01	*1	*1
Ens. LM2 VoiceNo.	09	01	*1	*1
Ens. UM Volume	0A	01	00 to 7F (0 to 127)	--
Ens. LM Volume	0B	01	00 to 7F (0 to 127)	--
Ens. UM1 Volume	0C	01	00 to 7F (0 to 127)	--
Ens. UM2 Volume	0D	01	00 to 7F (0 to 127)	--
Ens. LM1 Volume	0E	01	00 to 7F (0 to 127)	--
Ens. LM2 Volume	0F	01	00 to 7F (0 to 127)	--
Ens. UM Panpot	10	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. LM Panpot	11	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. UM1 Panpot	12	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. UM2 Panpot	13	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. LM1 Panpot	14	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. LM2 Panpot	15	01	00 to 7F (L64 ~ C ~ R63)	--
Ens. UM1 Velocity	16	01	00 to 06 (Off, 1 to 6)	--
Ens. UM2 Velocity	17	01	00 to 06 (Off, 1 to 6)	--
Ens. LM1 Velocity	18	01	00 to 06 (Off, 1 to 6)	--
Ens. LM2 Velocity	19	01	00 to 06 (Off, 1 to 6)	--
Ens. UM Detune Offset	1A	01	00 to 7F (0 to 127)	--
Ens. LM Detune Offset	1B	01	00 to 7F (0 to 127)	--
Ens. UM Detune Width	1C	01	00 to 7F (0 to 127)	--
Ens. LM Detune Width	1D	01	00 to 7F (0 to 127)	--
Pedal Octave	1E	01	00,7F(Off, On)	--
Pedal To Lower	2C	00	00,7F(Off, On)	--
Lower To Pedal	2D	00	00,7F(Off, On)	--
Pedal Voice Sw.	42	00	00 to 04 (Off, ABs, EBs, Cus, Tuba)	--
Pedal Custom VoiceNo.	1F	01	*7	*7
Pedal Volume	30	00	00 to 7F (0 to 127)	--
Pedal Panpot	20	01	00 to 7F (L64 ~ C ~ R63)	--
Pedal Fixed Velocity	21	01	00 to 7F (0 to 127)	--
Drawbar UM Cancel	50	00	00 to 7F (0 to 127)	--
Drawbar LM Cancel	51	00	00 to 7F (0 to 127)	--
Drawbar UM Priority	52	00	00 to 02 (Off, Indiv., Global)	--
Drawbar LM Priority	53	00	00 to 02 (Off, Indiv., Global)	--
Drawbar PK Priority	54	00	00 to 02 (Off, Indiv., Global)	--
Drawbar UM Type	38	00	00 to 02 (B-Type, Mellow, Brite)	--
Drawbar LM Type	39	00	00 to 02 (B-Type, Mellow, Brite)	--
Drawbar PK Type	3A	00	00,01(Normal, Muted)	--
Drawbar UM Fold Lo	5B	00	00 to 0C (1C to 2C)	--
Drawbar UM Fold Hi	5C	00	2B to 30 (4G to 5C)	--
Drawbar LM Fold Lo	5D	00	00 to 0C (1C to 2C)	--
Drawbar LM Fold Hi	5E	00	2B to 30 (4G to 5C)	--
Perc. Drawbar Cancel	5A	00	00,7F(Off, On)	--
Perc. Drawbar Level	5F	00	00,01(0db, -3dB)	--
Drawbar UM Attack	3B	00	00 to 04 (Slow, No, Soft, Norm, Max)	--
Drawbar LM Attack	3C	00	00 to 04 (Slow, No, Soft, Norm, Max)	--
Drawbar PK Attack	3D	00	00 to 04 (Slow, No, Soft, Norm, Max)	--
Percussion 2nd	12	00	00,7F(OFF,ON)	--
Percussion 3rd	13	00	00,7F(OFF,ON)	--
Perc. Fast Decay	16	00	00,7F(OFF,ON)	--
Perc. Soft	15	00	00,7F(OFF,ON)	--
Perc. Touch	57	00	00,7F(OFF,ON)	--
Perc. Velocity	58	00	00,7F(OFF,ON)	--
Perc. Volume	59	00	00 to 0F (1 to 16)	--
Perc. Keytrack	6C	00	00,7F(OFF,ON)	--

PRESET PARAMETER				
FUNCTION	NRPN		DATA RANGE	
	MSB (63H)	LSB (62H)	MSB (06H)	LSB (26H)
Sustain UM	06	00	00,7F(Off, On)	--
Sustain LM	07	00	00,7F(Off, On)	--
Sustain PK	08	00	00,7F(Off, On)	--
Sustain PK Long	0F	00	00,7F(Off, On)	--
Sustain UM Mode	0C	00	00 to 02 (Drawbar, Ensemble, Both)	--
Sustain LM Mode	0D	00	00 to 02 (Drawbar, Ensemble, Both)	--
Sustain PK Mode	0E	00	00 to 02 (Drawbar, Ensemble, Both)	--
Sustain UM Tipe	1C	00	00 to 02 (Short, Mid, Long)	--
Sustain LM Type	1D	00	00 to 02 (Short, Mid, Long)	--
Sustain PK Type	1E	00	00 to 02 (Short, Mid, Long)	--
Sustain PK Long Time	2F	00	00 to 02 (Short, Mid, Long)	--
Vibrato Mode	45	00	00 to 02(01 to 03)	--
Vibrato Chorus	0B	00	00,7F(Vibrato, Chorus)	--
Vibrato UM	17	00	00,7F(Off, On)	--
Vibrato LM	18	00	00,7F(Off, On)	--
Leslie	09	00	00,7F(Off, On)	--
Leslie Slow / Fast	00	00	00,7F(Slow, Fast)	--
Overdrive	6D	00	00 to 0F (Off, 1 to 15)	--
Vibrato Speed	3F	00	00 to 04 (Slow, Mid, Norm, Midfast, Fast)	--
FootSw. Mode L	22	01	00 to 0C (0 to 12) *6	--
FootSw. Mode R	23	01	00 to 0C (0 to 12) *6	--
Glide	46	01	00,7F(Off, On)	--
Glide Range	24	01	00 to 7F (0 to 127)	--
Glide Speed	25	01	00 to 7F (0 to 127)	--
Glide LM	26	01	00,7F(Off, On)	--
Sound Effect Sw.	26	00	00,7F(Release, Push)	--
SE Program No.	27	01	*4	*4
SE Volume	28	01	00 to 7F (0 to 127)	--
SE Panpot	29	01	00 to 7F (L64 ~ C ~ R63)	--
Prochord	66	00	00,7F(Off, On)	--
Prochord Type	67	00	00 to 13 (0 to 19) *8	--
Prochord Voice1 No.	2A	01	00 to 3D (0 to 61) *9	--
Prochord Voice2 No.	2B	01	00 to 3D (0 to 61) *9	--
Prochord Voice3 No.	2C	01	00 to 3D (0 to 61) *9	--
Prochord Voice4 No.	2D	01	00 to 3D (0 to 61) *9	--
Proc. Velocity Offset	2E	01	00 to 7F (0 to 127)	--
Auto Arpeggio	2F	01	00,7F(Off, On)	--
Auto Arpeggio Pattern	30	01	00 to 04 (Up, U/D, Sng, St1, St2)	--
Auto Arpeggio Volume	31	01	00 to 7F (0 to 127)	--
Auto Arpeggio Panpot	32	01	00 to 7F (L64 ~ C ~ R63)	--
Auto Arpeggio VoiceNo.	33	01	*5	*5
Auto Arpeggio Division	34	01	00 to 03 (8, 12, 16, 24)	--
Auto Arpeggio Mode	35	01	00,01 (Chord, Scan)	--
Mdrum	36	01	00,7F(Off, On)	--
Mdrum Mode	37	01	00,01 (Single, Set)	--
Mdrum Volume	38	01	00 to 7F (0 to 127)	--
Mdrum Panpot	3B	01	00 to 7F (L64 ~ C ~ R63)	--
Mdrum Velocity	45	01	00 to 06 (Off, 1 to 6)	--
Mdrum Keyshift	3C	01	28 to 58 (-24~0~24)	--
Mdrum Set No.	3D	01	00 to 0F (0 to 15)	--
Md. LM Single VoiceNo.	3E	01	00 to 1A (0 to 26) *3	--
Mdrum LM	3F	01	00,7F(Off, On)	--
Mdrum PK	40	01	00,7F(Off, On)	--
Md. PK Single VoiceNo.	41	01	00 to 1A (0 to 26) *3	--
LM Split	42	01	00,7F(Off, On)	--
LM Split Key	43	01	00 to 3C (1C to 6C)	--

< CUSTOM VOICE LIST(1/2) > *1

GROUP NO	NAME	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
				MSB(06H)		LSB(26H)	
				DEC	HEX	DEC	HEX
1	PIANO	GrndPno	Acoustic Grand Piano	0	00	0	00
		BrtPno	Bright Piano	0	00	1	01
		EGndPno	Electric Grand Piano	0	00	2	02
		ElecPno1	Electric Piano 1	0	00	3	03
		ElecPno2	Electric Piano 2	0	00	4	04
		EPno60s	60's Electric Piano	0	00	5	05
		DarkPno	Dark Piano	0	00	6	06
		HnktPno	Honkey-Tonk Piano	0	00	7	07
		EPnoDet1	Detuned Electric Piano 1	0	00	8	08
		EPnoDet2	Detuned Electric Piano 2	0	00	9	09
		TremEPno	Tremolo Electric Piano	0	00	10	0A
		EPnoVel1	Electric Piano 1 Velocity	0	00	11	0B
		EPnoVel2	Electric Piano 2 Velocity	0	00	12	0C
2	PERCUSSION CHROMATIC	Hrpschrd	Harpsichord	0	00	16	10
		Clav	Clavi	0	00	17	11
		Celesta	Celesta	0	00	18	12
		Glock	Glockenspiel	0	00	19	13
		Vibe	Vibraphone 1	0	00	20	14
		Marimba	Marimba	0	00	21	15
		HrpsCoup	Coupled Harpsichord	0	00	22	16
		MusBox	Music Box	0	00	23	17
		GlockX-66	Glockenspiel X-66	0	00	24	18
		Vibe 2	Vibraphone 2	0	00	25	19
		Xylophon	Xylophone	0	00	26	1A
		Dulcinn	Dulcimer	0	00	27	1B
		OrchHarp	Orchestral Harp	0	00	28	1C
		Chime	Tubular-Bell	0	00	29	1D
		ChurBell	Church Bell	0	00	30	1E
		OrgnHarp	Organ Harp	0	00	31	1F
		OrgnChim	Organ Chime	0	00	32	20
3	PIPE ORGAN	ChurOrg1	Church Organ 1	0	00	40	28
		ChurOrg2	Church Organ 2	0	00	41	29
		ChurOrg3	Church Organ 3	0	00	42	2A
		Positiv1	Positive Organ 1	0	00	43	2B
		Positiv2	Positive Organ 2	0	00	44	2C
		OboeHorn	Oboe (Pipe Organ)	0	00	45	2D
		Bourdon	Bourdon 1 (Pipe Organ)	0	00	46	2E
		StoeFlut	Bourdon 2 (Pipe Organ)	0	00	47	2F
		Diapason	Diapason (Pipe Organ)	0	00	48	30
		Gamba	Gamba (Pipe Organ)	0	00	49	31
		Mix IV	Mixture IV (Pipe Organ)	0	00	50	32
		Trompette	Trompette (Pipe Organ)	0	00	51	33
		Novachord sus	Novachord sus (Analog Organ)	0	00	56	38
		Org. Diap	Diapason (Analog Organ)	0	00	57	39
		Org. Trpet	Trumpet (Analog Organ)	0	00	58	3A
		Org. Un.	Violin (Analog Organ)	0	00	59	3B
		Theater1	Theater Organ 1 (Analog Organ)	1	01	4	04
4	ANALOG ORGAN/ ACCORD.	Theater2	Theater Organ 2 (Analog Organ)	1	01	5	05
		Novachord d	Novachord dcy (Analog Organ)	0	00	71	47
		Kinura	Kinura (Analog Organ)	0	00	63	3F
		Org. Horn	Horn (Analog Organ)	0	00	64	40
		Org. Celo	Cello (Analog Organ)	0	00	65	41
		VoxHumn	Vox Humana (Analog Organ)	0	00	62	3E
		Theater3	Theater Organ 3 (Analog Organ)	1	01	6	06
		AcordFrch	Accordion French	0	00	60	3C
		Barr-don	Tango Accordion	0	00	61	3D
		Harmonica	Harmonica	0	00	68	44
		ReedOrg.	Reed Organ	0	00	69	45
		AcordItal	Accordion Italian	0	00	66	42
		AcordJazz	Jazz Accordion	0	00	67	43
		Melodion	Melodion	0	00	70	46
5	GUITAR	NlnGtr.	Nylon-string Guitar	0	00	72	48
		StlGtr.	Steel-string Guitar	0	00	73	49
		JazzGtr.	Jazz Guitar	0	00	74	4A
		HawGtr.	Hawaiian Guitar	0	00	75	4B
		Cln.Gtr.	Clean Guitar	0	00	76	4C
		MuteGtr.	Muted Guitar	0	00	77	4D
		N&S Gtr.	Nylon+Steel Guitar	0	00	78	4E
		12stGtr.	12-strings Guitar	0	00	79	4F
		CtryGtr.	Country Guitar	1	01	7	07
		Uku-1ele	Ukulele	0	00	80	50
		ChrsGtr.	Chorus Guitar	0	00	81	51
		FunkGtr.	Funk Guitar	0	00	82	52
		OverGtr.	Overdrive Guitar	0	00	83	53
		DistGtr.	Distortion Guitar	0	00	84	54
		Gtr.Harm	Guitar Harmonics	0	00	85	55
6	ORCHESTRAL /CHOIR	FdbkGtr.	Feedback Guitar	0	00	86	56
		Gtr.Fdbk	Guitar Feedback	0	00	87	57
		Vlin	Violin	0	00	88	58
		Viola	Viola	0	00	89	59
		Strg 1	BBD Strings	0	00	90	5A
		Dull1Str1	Dull BBD Strings	0	00	91	5B
		SlowStrg	Slow Strings	0	00	92	5C
		TremStrg	Tremolo Strings	0	00	93	5D
		SlowVlin	Slow Violin	0	00	94	5E
		Cello	Cello	0	00	95	5F
		Strg 2	Strings	0	00	96	60
		Dull1Str2	Dull Strings	0	00	97	61
		PizzStrg	Pizzicato Strings	0	00	98	62
		Orchestra	Orchestra	0	00	99	63
		SynStr1	Synth Strings 1	0	00	100	64
7	BRASSES	SynStr2	Synth Strings 2	0	00	101	65
		OrchHit	Orchestra Hit	0	00	102	66
		AahChor	Aah Choir	0	00	103	67
		ChurChor	Church Choir	0	00	104	68
		DooVox	Doo Voice	0	00	105	69
		SynStr3	Synth Strings 3	0	00	106	6A
		Timpani	Timpani	0	00	107	6B
		SlowChor	Slow Choir	0	00	108	6C
		SynVox	Synth Voice	0	00	109	6D
		BopVox	Bop Voice	0	00	110	6E
		Trpet	Trumpet 1	0	00	112	70
		SlowTrpet	Slow Trumpet	0	00	113	71
		Trombone	Trombone 1	0	00	114	72
		MelwTrbn	Trombone 3	0	00	115	73
		FrHnSect	French Horns	0	00	116	74
		BrasSect	Brass Section 1	0	00	117	75
		BritTrpet	Trumpet 2	0	00	118	76
		MuteTrpet	Muted Trumpet	0	00	119	77
		SynTrbn	Trombone 2	0	00	120	78
		FrHnClos	French Horn Closed	0	00	121	79
		FrHnOpen	French Horn Open	0	00	122	7A
		Bras&Tr.	Brass Section 2	0	00	123	7B
		FlutHorn	Flugel Horn	0	00	124	7C
		SynBras1	Synth Brass 1	0	00	125	7D
		SynBras2	Synth Brass 2	0	00	126	7E
		AnaBras1	Analog Brass 1	0	00	127	7F
		BrasFall	Brass Fall Down	1	01	0	00
		SynBras3	Synth Brass 3	1	01	1	01
		SynBras4	Synth Brass 4	1	01	2	02
		AnaBras2	Analog Brass 2	1	01	3	03

< CUSTOM VOICE LIST (2/2) > *1

GROUP NO	NAME	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
				MSB(06H)		LSB(26H)	
				DEC	HEX	DEC	HEX
8	REEDS	SoprSax	Soprano Sax	1	01	16	10
		AltoSaxf	Alto Sax f	1	01	17	11
		TenrSaxf	Tenor Sax f	1	01	18	12
		OverSax	Overblown Sax	1	01	19	13
		Barisax	Baritone Sax	1	01	20	14
		Clarinet	Clarinet	1	01	21	15
		AltoSaxp	Alto Sax p	1	01	22	16
		TenrSaxp	Tenor Sax p	1	01	23	17
		TenrSaxv	Tenor Sax Velocity	1	01	24	18
		SlowCla.	Slow Clarinet	1	01	25	19
		Oboe	Oboe	1	01	26	1A
		EnglHorn	English Horn	1	01	27	1B
		Bassoon	Bassoon	1	01	28	1C
9	FLUTES/ WINDS	Piccolo	Piccolo	1	01	32	20
		Flut	Flute 1	1	01	33	21
		Recorder	Recorder 1	1	01	34	22
		PanFlut	Pan Flute	1	01	35	23
		Shakuhach	Shakuhachi	1	01	36	24
		Whistle	Whistle	1	01	37	25
		BrthFlut	Flute 2	1	01	38	26
		Recorderf	Recorder 2	1	01	39	27
		BotlBlow	Bottle Blow	1	01	40	28
		Ocarina	Ocarina	1	01	41	29
10	SYNTH LEAD (MELODY)	SqrLead	Square Lead	1	01	48	30
		SawLead	Saw Lead	1	01	49	31
		CallioLd	Calliope Lead	1	01	50	32
		CharangLd	Charang Lead	1	01	51	33
		FifthLead	Fifth Lead	1	01	52	34
		Bass&Ld	Bass & Lead	1	01	53	35
		Dr.Solo	Dr.Solo	1	01	54	36
		ChifLead	Chiffer Lead	1	01	55	37
		VoxLead	Voice Lead	1	01	56	38
		Square	Square	1	01	57	39
		Saw	Saw	1	01	58	3A
		Step 8	Step 8	1	01	59	3B
		Sine	Sine Wave	1	01	60	3C
		Step 4	Step 4	1	01	61	3D
11	SYNTH PAD (CHORD)	NewAge	New Age Pad	1	01	64	40
		Polysyn.	Polysynth Pad	1	01	65	41
		BowdPad	Bowed Pad	1	01	66	42
		HaloPad	Halo Pad	1	01	67	43
		IceRain	Ice Rain	1	01	68	44
		Sndtrck	Soundtrack	1	01	69	45
		WarmPad	Warm Pad	1	01	70	46
		ChorPad	Choir Pad	1	01	71	47
		MetalPad	Metal Pad	1	01	72	48
		SweepPad	Sweep Pad	1	01	73	49
		Atmospher	Atmosphere	1	01	74	4A
		Bright	Brightness	1	01	75	4B
		Crystal	Crystal	1	01	76	4C
		Goblin	Goblin	1	01	77	4D
		EchoDrop	Echo Drops	1	01	78	4E
		Sci-Fi	Sci-Fi	1	01	79	4F
		SynthMalt	Synth Mallet	1	01	80	50
		EchoPan	Echo Pan	1	01	81	51
12	ETHNIC	Sitr	Sitar 1	1	01	96	60
		Banjo	Banjo	1	01	97	61
		Shamisen	Shamisen	1	01	98	62
		Koto	Koto	1	01	99	63
		Kalimba	Kalimba	1	01	100	64
		Fiddle	Fiddle	1	01	101	65
		SitrOct	Sitar 2	1	01	102	66
		Mandolin	Mandolin	1	01	103	67
		TsuGaru	Tsugaru Shamisen	1	01	104	68
		TaisKoto	Taisho Koto	1	01	105	69
		BagPipe	Bagpipe	1	01	106	6A
		Shanai	Shanai	1	01	107	6B
		Tnk1Bell	Tinkle Bell	1	01	108	6C
13	DRUMS/ SOUNDS	SteelDrum	Steel Drum	1	01	109	6D
		Agogo	Agogo	1	01	112	70
		Woodblock	Woodblock	1	01	113	71
		MeloTom1	Melodic Tom 1	1	01	114	72
		SynTom	Synth Tom	1	01	115	73
		Taiko	Taiko Drum	1	01	116	74
		RevCam1	Reverse Cymbal 1	1	01	117	75
		Castanet	Castanet	1	01	118	76
		Conc BD	Concert Bass Drum	1	01	119	77
		MeloTom2	Melodic Tom 2	1	01	120	78
		AnlgTom	Analog Tom	1	01	121	79
		ShimTiko	Shime Taiko	1	01	122	7A
		RevCam2	Reverse Cymbal 2	1	01	123	7B
		FretNois	Guitar Fret Noise	1	01	124	7C
		StrngSlap	String Slap	1	01	125	7D
		BrthNois	Breath Noise	1	01	126	7E
		DogBark	Dog Bark	1	01	127	7F
14	USER VOICE	Scratch	Scratch	2	02	0	00
		Thunder	Thunder	2	02	1	01
		OutNois	Guitar Cutting Noise	2	02	2	02
		FlutKey	Flute Key Click	2	02	3	03
		WindChim	Wind Chime	2	02	4	04
		BirdTwt	Bird Tweet	2	02	5	05
		Punch	Punch	2	02	6	06
		Explosn	Explosion	2	02	7	07
			==Default Voice==				
		User 1	Acoustic Grand Piano	4	04	0	00
		User 2	Harpsichord	4	04	1	01
		User 3	Diapason(Pipe Organ)	4	04	2	02
		User 4	Accordion French	4	04	3	03
		User 5	Steel-string Guitar	4	04	4	04
		User 6	Violin	4	04	5	05
		User 7	Synth Strings 1	4	04	6	06
		User 8	Trumpet 1	4	04	7	07
		User 9	Alto Sax f	4	04	8	08
		User 10	Clarinet	4	04	9	09
		User 11	Flute 1	4	04	10	0A
		User 12	Saw Lead	4	04	11	0B
		User 13	Step 4	4	04	12	0C
		User 14	Step 8	4	04	13	0D
		User 15	Bowed Pad	4	04	14	0E
		User 16	Atmosphere	4	04	15	0F

< ORCHESTRAL VOICE SWITCH LIST >*2

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	Flute	Flute	00	00	--	--
2	TenrSax	Tenor Sax	01	01	--	--
3	Clarinet	Clarinet	02	02	--	--
4	Trumpet	Trumpet	03	03	--	--
5	Trombone	Trombone	04	04	--	--
6	Violin	Violin	05	05	--	--
7	Accord	Accordion	06	06	--	--
8	GrndPno	Grand Piano	07	07	--	--
9	ElecPno	Elect Piano	08	08	--	--
10	JazzGtr.	Jazz Guitar	09	09	--	--
11	NylnGtr.	Nylon Guitar	10	0A	--	--
12	Vibraphn	Vibraphone	11	0B	--	--
13	Marimba	Marimba	12	0C	--	--
14	Banjo	Banjo	13	0D	--	--
15	OrCust1	Orchestral Custom 1	14	0E	--	--
16	OrCust2	Orchestral Custom 2	15	0F	--	--
17	PanFlute	PanFlute	16	10	--	--
18	Oboe	Oboe	17	11	--	--
19	Fr. Horn	French Horn	18	12	--	--
20	MutedTrp	Muted Trumpet	19	13	--	--
21	Syn.Br	Synth Brass	20	14	--	--
22	Harmnca	Harmonica	21	15	--	--
23	ChurOrg	Church Organ	22	16	--	--
24	Hrpschrd	Harpsichord	23	17	--	--
25	Clavi	Clavi	24	18	--	--
26	ClearGtr	Clear Guitar	25	19	--	--
27	NewAgePd	Newage Pad	26	1A	--	--
28	Glocken	Glocken	27	1B	--	--
29	SteelDrum	Steel Drum	28	1C	--	--
30	Chime	Chime	29	1D	--	--

< MANUAL DRUM SINGLE VOICE LIST >*3

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	BassDrum	Kick Drum 1	0	00	--	--
2	PwrBasDr	MONDO Kick	1	01	--	--
3	CncrBsDr	Concert BD 1	2	02	--	--
4	JazzBsDr	Jazz BD 1	3	03	--	--
5	AnlgBsDr	Analog BD	4	04	--	--
6	RimShot	Side Stick	5	05	--	--
7	SnarDrum	Snare Drum 1	6	06	--	--
8	GtdSnrDr	Gated SD	7	07	--	--
9	OrchSnar	Concert SD	8	08	--	--
10	JazzSnar	Jazz SD 1	9	09	--	--
11	AnlgSnar	Analog SD 1	10	0A	--	--
12	BrusSlap	Brush Slap	11	0B	--	--
13	BrusSwrl	Brush Swirl	12	0C	--	--
14	HandClap	Hand Clap	13	0D	--	--
15	RideCymb	Ride Cymbal 1	14	0E	--	--
16	CncrCymb	Concert Cymbal 1	15	0F	--	--
17	CrshCymb	Crash Cymbal 1	16	10	--	--
18	AnlgCymb	Analog Cymbal	17	11	--	--
19	ClshHiHat	Closed Hi-hat	18	12	--	--
20	HighTom	High Tom 1	19	13	--	--
21	MidTom	Mid Tom 2	20	14	--	--
22	LowTom	Low Tom 2	21	15	--	--
23	Tamborin	Tambourine	22	16	--	--
24	Castanet	Castanets	23	17	--	--
25	WoodBlok	High Wood Block	24	18	--	--
26	Cabasa	Cabasa	25	19	--	--
27	SleighBl	Jingle Bell	26	1A	--	--

< SOUND EFFECT VOICE LIST >*4

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	Seashore	Seashore	2	02	32	20
2	Rain	Rain	2	02	33	21
3	Thunder	Thunder	2	02	34	22
4	Wind	Wind	2	02	35	23
5	Stream	Stream	2	02	36	24
6	Bubble	Bubble	2	02	37	25
7	BirdTwe1	Bird Tweet 1	2	02	38	26
8	BirdTwe2	Bird Tweet 2	2	02	39	27
9	DogBark	Dog Bark	2	02	40	28
10	HorsGalp	Horse Gallop	2	02	41	29
11	TeleRin1	Telephone Ring 1	2	02	42	2A
12	TeleRin2	Telephone Ring 2	2	02	43	2B
13	DoorCrk	Door Creaking	2	02	44	2C
14	DoorSlam	Door Slam	2	02	45	2D
15	Scratch	Scratch	2	02	46	2E
16	WindChim	Wind Chime	2	02	47	2F
17	Helicopt	Helicopter	2	02	48	30
18	CarEngn	Car Engine	2	02	49	31
19	CarStop	Car Stop	2	02	50	32
20	CarPass	Car Pass	2	02	51	33
21	CarCras	Car Crash	2	02	52	34
22	Siren	Siren	2	02	53	35
23	Train	Train	2	02	54	36
24	JetPlan	Jet Plane	2	02	55	37
25	StarShip	Star Ship	2	02	56	38
26	BurstNois	Burst Noise	2	02	57	39
27	Applause	Applause	2	02	58	3A
28	Laughing	Laughing	2	02	59	3B
29	Scream	Scream	2	02	60	3C
30	Punch	Punch	2	02	61	3D
31	HrtBeat	Heart Beat	2	02	62	3E
32	FootStep	Foot Step	2	02	63	3F
33	GunShot	Gun Shot	2	02	64	40
34	MacGun	Machine Gun	2	02	65	41
35	LaseGun	Laser Gun	2	02	66	42
36	Explosn	Explosion	2	02	67	43
37	Chime	Tubular-Bell	2	02	68	44
38	OrgChim	Organ Chime	2	02	69	45
39	ChurBell	Church Bell	2	02	70	46
40	Gong	Gong	2	02	71	47
41	Cym.Roll	Cymbal Roll	2	02	72	48
42	SLWhis	SL Whistle	2	02	73	49
43	StemLoco	Steam Locomotive	2	02	74	4A

< AUTO ARPEGGIO VOICE LIST >*5

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	GrndPno	Acoustic Grand Piano	2	02	80	50
2	Hrpschrd	Harpsichord	2	02	81	51
3	Celesta	Celesta	2	02	82	52
4	Vibe	Vibraphone 1	2	02	83	53
5	GlockX-66	Glockenspiel X-66	2	02	84	54
6	Harp	Orchestral Harp	2	02	85	55
7	NylnGtr.	Nylon-string Guitar	2	02	86	56
8	StlgGtr.	Steel-string Guitar	2	02	87	57
9	JazzGtr.	Jazz Guitar	2	02	88	58
10	String 1	BBD Strings	2	02	89	59
11	Flute	Flute 1	2	02	90	5A
12	VoxLead	Voice Lead	2	02	91	5B
13	Sine	Sine Wave	2	02	92	5C
14	NewAge	New Age Pad	2	02	93	5D
15	BowedPad	Bowed Pad	2	02	94	5E
16	HaloPad	Halo Pad	2	02	95	5F
17	WarmPad	Warm Pad	2	02	96	60
18	MetalPad	Metal Pad	2	02	97	61
19	EchoDrop	Echo Drops	2	02	98	62
20	Banjo	Banjo	2	02	99	63
21	Koto	Koto	2	02	100	64
22	Mandolin	Mandolin	2	02	101	65

< FOOT SWITCH MODE(L,R)DATA LIST >*6

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	OFF	Off	0	00	--	--
2	LESLIE	Leslie slow/fast Sw.	1	01	--	--
3	UM SUSTAIN	Upper Sustain	2	02	--	--
4	ORCH DAMPE	Orchestral Damper	3	03	--	--
5	PRESET +	Preset Increment	4	04	--	--
6	PRESET -	Preset Decrement	5	05	--	--
7	MANUAL DRU	Manual Drum on/off	6	06	--	--
8	ARPEGGIO	Auto Arpeggio on/off	7	07	--	--
9	PROCHORD	Pro Chord on/off	8	08	--	--
10	RHYTHM ST/	Rhythm Start/Stop	9	09	--	--
11	RHYTHM FIL	Rhythm Fill1 Sw.	10	0A	--	--
12	RHYTHM FIL	Rhythm Fill2 Sw.	11	0B	--	--
13	GLIDE	Glide on/off	12	0C	--	--

< PEDAL CUSTOM VOICE LIST >*7

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	AcouBass	Acoustic Bass	2	02	8	08
2	ElecBass	Electric Bass	2	02	9	09
3	PickBass	Picked Bass	2	02	10	0A
4	Gamba	Gamba (Pipe Organ)	2	02	11	0B
5	Bourdon	Bourdon 1 (Pipe Organ)	2	02	12	0C
6	Diapash	Diapason (Pipe Organ)	2	02	13	0D
7	Contbass	Contrabass	2	02	14	0E
8	FingBass	Finger Bass	2	02	15	0F
9	Fletless	Fletless Bass	2	02	16	10
10	Str. Ens.	Pedal Strings	2	02	17	11
11	StopFlut	Bourdon 2 (Pipe Organ)	2	02	18	12
12	Fagott	Fagott (Pipe Organ)	2	02	19	13
13	SlapBas1	Slap Bass 1	2	02	20	14
14	SynBas1	Synth Bass 1	2	02	21	15
15	SynBas2	Synth Bass 2	2	02	22	16
16	SynBas3	Synth Bass 3	2	02	23	17
17	Tuba	Tuba	2	02	24	18
18	Org.Bas1	OrganBass1 (Analog Organ)	2	02	25	19
19	SlapBas2	Slap Bass 2	2	02	26	1A
20	SynBas4	Synth Bass 4	2	02	27	1B
21	SynBas5	Synth Bass 101	2	02	28	1C
22	BassClar	Bass Clarinet	2	02	29	1D
23	Timpani	Timpani	2	02	30	1E
24	Org.Bas2	OrganBass2 (Analog Organ)	2	02	31	1F

< PROCHORD TYPE LIST > *8

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	Open	CX SX type Open	0	00	--	--
2	Closed	CX SX type Closed	1	01	--	--
3	Duet	Duet	2	02	--	--
4	Block1	Block 1	3	03	--	--
5	Block2	Block 2	4	04	--	--
6	B.B.Sax	Big Band Saxes	5	05	--	--
7	BigBand	Big Band	6	06	--	--
8	S.Comb1	Small Combo 1	7	07	--	--
9	S.Comb2	Small Combo 2	8	08	--	--
10	S.Comb3	Small Combo 3	9	09	--	--
11	Theatre	Theatre Organ	10	0A	--	--
12	Hymn	Hymn	11	0B	--	--
13	Quartet1	Quartet 1	12	0C	--	--
14	Quartet2	Quartet 2	13	0D	--	--
15	JazzBr	Jazz Brass	14	0E	--	--
16	Strings	Strings	15	0F	--	--
17	HarmChi	Harmonic Chime	16	10	--	--
18	OldTime	Old Time Piano	17	11	--	--
19	4PtClsd	4 Part Closed	18	12	--	--
20	5PtOpen	5 Part Open	19	13	--	--

< PROCHORD VOICE No. LIST >*9

No.	DISPLAYS	INSTRUMENT NAME	NRPN DATA ENTRY			
			MSB(06H)		LSB(26H)	
			DEC	HEX	DEC	HEX
1	GrPn	Acoustic Piano	0	00	--	--
2	DkPn	Dark Piano	1	01	--	--
3	E1P1	Electric Piano 1	2	02	--	--
4	E1P2	Electric Piano 2	3	03	--	--
5	Hpcd	Harpsichord	4	04	--	--
6	Clav	Clavi	5	05	--	--
7	Clst	Celesta	6	06	--	--
8	Glok	Glockenspiel X-66	7	07	--	--
9	Vibe	Vibraphone V	8	08	--	--
10	Mrm	Marimba	9	09	--	--
11	OHrp	Orchestral Harp	10	0A	--	--
12	OrgH	Organ Harp	11	0B	--	--
13	Drw1	Drawbar Organ 1	12	0C	--	--
14	Drw2	Drawbar Organ 2	13	0D	--	--
15	Perc	Percussive Organ	14	0E	--	--
16	ChOr	Church Organ	15	0F	--	--
17	Diap	Diapason	16	10	--	--
18	Bour	Bourdon	17	11	--	--
19	The1	Theatre Organ 1	18	12	--	--
20	The2	Theatre Organ 2	19	13	--	--
21	AcFr	Accordion French	20	14	--	--
22	AcJz	Accordion Jazz	21	15	--	--
23	Harm	Harmonica	22	16	--	--
24	NyGt	Nylon String Guitar	23	17	--	--
25	StGt	Steel String Guitar	24	18	--	--
26	JzGt	Jazz Guitar	25	19	--	--
27	HwGt	Hawaiian Guitar	26	1A	--	--
28	CtGt	Country Guitar	27	1B	--	--
29	Overdr	Overdrive Guitar	28	1C	--	--
30	Vlin	Violin	29	1D	--	--
31	Str1	Strings 1(BBD)	30	1E	--	--
32	Str2	Strings 2(real)	31	1F	--	--
33	SlSt	Slow Strings(real)	32	20	--	--
34	Aah	Aah Choir	33	21	--	--
35	Doo	Doo Voice	34	22	--	--
36	Trpt	Trumpet	35	23	--	--
37	MTrp	Muted Trumpet	36	24	--	--
38	Flug	Flugel Horn	37	25	--	--
39	Trb	Trombone	38	26	--	--
40	FrHn	French Horn Sect	39	27	--	--
41	SnB1	Synth Brass 1	40	28	--	--
42	SnB2	Synth Brass 2	41	29	--	--
43	SnSx	Soprano Sax	42	2A	--	--
44	ASxf	Alto Sax f	43	2B	--	--
45	ASxp	Alto Sax p	44	2C	--	--
46	TnSx	Tenor Sax f	45	2D	--	--
47	BrSx	Baritone Sax	46	2E	--	--
48	Clar	Clarinet	47	2F	--	--
49	Oboe	Oboe	48	30	--	--
50	Flut	Flute	49	31	--	--
51	PanF	Pan Flute	50	32	--	--
52	DrSl	Dr. Solo	51	33	--	--
53	NewA	New Age Pad	52	34	--	--
54	WmPd	Warm Pad	53	35	--	--
55	BwPd	Bowed Pad	54	36	--	--
56	Halo	Halo Pad	55	37	--	--
57	Sweep	Sweep Pad	56	38	--	--
58	Bnjo	Banjo	57	39	--	--
59	Mndo	Mandolin	58	3A	--	--
60	Shm	Shamisen	59	3B	--	--
61	Koto	Koto	60	3C	--	--
62	Tais	Taisho Goto	61	3D	--	--

< RHYTHMS & STYLE NUMBER LIST > *10

Style Sw.	Page	No.	Style Name	No.	Style Name	No.	Style Name	No.	Style Name
WALTZ (00)	1/3	00	Tradit. Waltz	01	Orch Waltz	02	Jazz Waltz	03	Organ Waltz
		04		05		06		07	
	2/3	08	European Waltz	09	String Waltz	0A	Viennese Waltz	0B	Musette Waltz
		0C	Slow Waltz	0D		0E		0F	
	3/3	10	Waltz	11	6/8 Fusion	12		13	
		14		15		16		17	
COUNTRY (01)	1/2	00	Country	01	Blue-grass	02	Country Shuffle	03	Country Rock
		04	Hoedown	05		06		07	
	2/2	08	Country Pop	09		0A		0B	
		0C		0D		0E		0F	
	1/2	00	Jazz Organ	01		02		03	
		04		05		06		07	
JAZZ (02)	2/2	08	Jazz	09	Afro&Jazz	0A	5/4	0B	
		0C		0D		0E		0F	
BALLAD (03)	1/2	00	Swing Ballad	01	Big Band Ballad	02	6/8BalladStrings	03	
		04		05		06		07	
	2/2	08	Slow Rock	09	Easy Ballad	0A		0B	
		0C		0D		0E		0F	
8BEAT (04)	1/2	00	8Beat SoftRock	01	8Beat Ballad	02	8Beat Rock	03	8Beat Easy Rock
		04		05		06		07	
	2/2	08	8 Beat 1	09	8 Beat 2	0A		0B	
		0C		0D		0E		0F	
DANCE (05)	1/2	00	Disco Samba	01	60's Dance	02	House	03	Modern Dance
		04		05		06		07	
	2/2	08	Disco	09	Acid Jazz	0A	Techno House	0B	Rap
		0C		0D		0E		0F	
BOSSA NOVA (06)	1/2	00	Bossa Nova	01	Jazz BosaNova	02		03	
		04		05		06		07	
	2/2	08	BosaNovaStandard	09		0A		0B	
		0C		0D		0E		0F	
RHUMBA (07)	1/2	00	Rhumba	01	Orch Rhumba	02		03	
		04		05		06		07	
	2/2	08	Rhumba/Beguine	09		0A		0B	
		0C		0D		0E		0F	
MARCH POLKA (08)	1/2	00	March 4/4	01	March 6/8	02	Polka	03	ConcertMarch4/4
		04	ConcertMarch6/8	05	Fast Polka	06		07	
	2/2	08	March4/4&6/8	09		0A		0B	
		0C		0D		0E		0F	
TRAD (09)	1/3	00	Hawaiian	01	Baroque	02	Bolero 4/4	03	Broadway Show
		04	Jumpin'Dixie	05		06		07	
	2/3	08	Foxtrot	09	Gospel 2-Beat	0A	Gentle Reggae	0B	Reggae Shuffle
		0C	Gypsy	0D		0E		0F	
	3/3	10	Bolero 3/4	11	Reggae	12	Enka	13	
		14		15		16		17	
SWING (0A)	1/2	00	DanceBndSwing	01	Boogie Woogie	02	Combo Swing	03	Midium Swing
		04	Fast Shuffle	05	European Swing	06	Blues	07	
	2/2	08	Shuffle	09	Swing	0A		0B	
		0C		0D		0E		0F	
ROCK (0B)	1/2	00	Hard Rock	01	Euro Rock	02		03	
		04		05		06		07	
	2/2	08	Rock 1	09	Rock 2	0A		0B	
		0C		0D		0E		0F	
16BEAT (0C)	1/2	00	16Beat Funk	01	16Beat Ballad	02	16Beat Dance	03	
		04		05		06		07	
	2/2	08	16Beat 1	09	16Beat 2	0A	16Beat Swing	0B	
		0C		0D		0E		0F	
SAMBA (0D)	1/2	00	Samba	01	Jazz Samba	02	Samba Lite	03	
		04		05		06		07	
	2/2	08	Samba Standard	09		0A		0B	
		0C		0D		0E		0F	
LATINS (0E)	1/2	00	ChaCha Cugat	01	Mambo Tito	02	ChaMambo	03	RhuMambo
		04		05		06		07	
	2/2	08	Mambo&ChaCha	09	Salsa	0A	Caribe	0B	
		0C		0D		0E		0F	
TANGO (0F)	1/2	00	Tango Bandneon	01		02		03	
		04		05		06		07	
	2/2	08	Tango Habanera	09		0A		0B	
		0C		0D		0E		0F	

< PRESET BANK & NAME LIST > *11

BANK	PRESET No.	C	1	2	3	4	5	6	7	8	9	10
NRPN(M)=11H	NRPN(M)=40H	DATA MSB										
NRPN(L)=00H	NRPN(L)=00H	00H	01H	02H	03H	04H	05H	06H	07H	08H	09H	0AH
DATA MSB	BANK NAME	PRESET NAME										
00H	POPORG1	Cancel	Concord	DB&Strg	Eddie	Clrinet	FIDB&St	PnoSolo	SirJuli	DBSustn	OrgChime	Sfrzndo
01H	POPORG2		LitPerc	Earl	Thea3pt	Thea4DB	MrLucky	SolPerc	HlwPerc	Novacrd	Novelty	FullEns
02H	THERTRE		Tib&Vox	TibSolo	Jazzy	Voxes	Tib&Stg	SolOboe	Moodsol	StyDTrp	George	FulComb
03H	CLASORG		FulComb	PrnChrs	StgClst	Prelude	Flutes	OboSolo	CornetV	Chimes	Hymn	Sfrzndo
04H	DRAWBARS		Litsolo	Jackie1	Jimmy	NovSolo	Jackie2	1684&2	HiHarm1	HiHarm2	Clar+16	AllNine
05H	JAZZ		JazzOrg	MJQ	Miller	B.B.Sax	BrsSect	Str.Orc	Quartet	Gtr4ths	BigBand	Tutti
06H	CLASICAL		FrchHrn	Obo&Pzs	PnoCnct	Flt&Hrp	Hps&Org	VlnSolo	Clr&Trm	Trp&Gtr	StgSect	Org&Orc
07H	EASYLIST		PnoSolo	EngHorn	SaxSolo	Whistle	Pno&Org	StgOrch	Block	OrgBloc	Stgs4pt	Org&Stg
08H	EDUCATE		Jazz	Bossa	FullOrg	PipeOrg	Theatre	Str.Orc	BigBand	Combo	Fl&Gt	Contemp
09H	SXCXTYPE		Pretty	PfJazz	JAZZ	STR.1	TIBIAS	STG.2	FullOrg	TUTTI	TIBIA2	FulOrch

EXPreset change to "Miller"=Bank 05H, No.03H
BF 99 11 98 00 06 05 99 40 98 00 06 03

EXPreset change to 3(no change bank)
BF 99 40 98 00 06 03

< VOICE PARAMETER VOICE LIST > *12

No.	INSTRUMENT NAME		DATA ENTRY		No.	INSTRUMENT NAME		DATA ENTRY	
			MSB(06)					MSB(06)	
			DEC	HEX				DEC	HEX
1	Orchestral	Flute	00	00	31	Custom	User 1	30	1E
2	Voice	Tenor Sax	01	01	32	Voice	User 2	31	1F
3		Clarinet	02	02	33		User 3	32	20
4		Trumpet	03	03	34		User 4	33	21
5		Trombone	04	04	35		User 5	34	22
6		Violin	05	05	36		User 6	35	23
7		Accordion	06	06	37		User 7	36	24
8		Grand Piano	07	07	38		User 8	37	25
9		Elect Piano	08	08	39		User 9	38	26
10		Jazz Guiter	09	09	40		User 10	39	27
11		Nylon Guiter	10	0A	41		User 11	40	28
12		Vibraphone	11	0B	42		User 12	41	29
13		Marimba	12	0C	43		User 13	42	2A
14		Banjo	13	0D	44		User 14	43	2B
15		Orchestral Custom 1	14	0E	45		User 15	44	2C
16		Orchestral Custom 2	15	0F	46		User 16	45	2D
17		PanFlute	16	10	47	Ensemble	UM 1	46	2E
18		Oboe	17	11	48	Voice	UM 2	47	2F
19		French Horn	18	12	49		LM 1	48	30
20		Muted Trumpet	19	13	50		LM 2	49	31
21		Synth Brass	20	14	51	Pedal	Acoustic Bass	50	32
22		Harmonica	21	15	52	Voice	Electric Bass	51	33
23		Church Organ	22	16	53		Custom Voice	52	34
24		Harpsi Chord	23	17	54		Tuba	53	35
25		Clavi	24	18					
26		Clear Guiter	25	19					
27		Newage Pad	26	1A					
28		Glocken	27	1B					
29		Steel Drum	28	1C					
30		Chime	29	1D					

< XT-100/XH-200 GM MODE INSTRUMENTS LIST >

(2):use 2 voices (S):not chromatic scale (M):can't control by modulation wheel *:after No. is drawbar registration

PROGRAM NUMBER	VARIATION NUMBER	INSTRUMENT NAME	EFFECT
001	000	Acoustic Grand Piano	
	016	Dark Piano	
002	000	Bright Piano	
003	000	Electric Grand Piano	
004	000	Honkey-Tonk Piano	2
005	000	Electric Piano 1	
	001	Tremolo Electric Piano	2
	008	Detuned Electric Piano 1	2
	016	Electric Piano 1 Velocity	2
	024	60's Electric Piano	
006	000	Electric Piano 2	
	008	Detuned Electric Piano 2	2
	016	Electric Piano 2 Velocity	2
007	000	Harpsichord	
	008	Coupled Harpsichord	2
008	000	Clavi	
009	000	Celesta	
010	000	Glockenspiel	
	001	Glockenspiel X-66	
011	000	Music Box	
012	000	Vibraphone	
013	000	Marimba	
014	000	Xylophone	
015	000	Tubular-Bell	
	001	Organ Chime	
	008	Church Bell	
	016	Carillon	
016	000	Dulcimer	
017	000	Drawbar Organ	
	001	* Drawbar 1 (88 800 0006)	
	002	* Drawbar 2 (88 880 0000)	
	003	* Drawbar 3 (84 631 0000)	
	004	* Drawbar 4 (88 008 0000)	
	005	* Drawbar 5 (80 880 0000)	
	006	* Drawbar 6 (80 530 0000)	
	007	* Drawbar 7 (80 800 0000)	
	008	Detuned Electric Organ 1	2
	009	* Drawbar 8 (80 500 0000)	
	010	* Drawbar 9 (80 080 0000)	
	011	* Drawbar 10 (80 008 0000)	
	012	* Drawbar 11 (80 000 8000)	
	013	* Drawbar 12 (80 000 0008)	
	014	* Drawbar 13 (80 000 0888)	
	015	* Drawbar 14 (80 800 0888)	
	016	60's Organ	
	017	* Drawbar 16 (32 505 0504)	
	018	* Drawbar 17 (80 808 0806)	
	019	* Drawbar 18 (32 483 6056)	
	020	* Drawbar 19 (88 800 0444)	
	021	* Drawbar 20 (88 888 4444)	
	022	* Drawbar 21 (86 421 2356)	
	023	* Drawbar 22 (86 785 6566)	
	024	* Drawbar 23 (08 806 0000)	
	025	* Drawbar 24 (08 888 0000)	
	026	* Drawbar 25 (02 800 0060)	
	027	* Drawbar 26 (88 888 8888)	
	028	* Drawbar 27 (08 880 0880)	
	029	* Drawbar 28 (88 800 0000)	
	030	* Drawbar 29 (83 800 0000)	
	032	Drawbar+60's Organ	2
018	000	Percussive Organ	M
	001	* Drawbar 1p (88 800 0006)	2
	002	* Drawbar 2p (88 880 0000)	2
	008	Detuned Electric Organ 2	2
	032	Xylo Organ	2
	042	Theater Organ 1 (Analog)	
	043	Theater Organ 2 (Analog)	
	044	Theater Organ 3 (Analog)	
	045	EX Bass	
019	000	Rock Organ	2 M
020	000	Church Organ 1	
	001	Positive Organ 1	
	002	Positive Organ 2	
	008	Church Organ 2	2
	016	Church Organ 3	2
	024	Diapason (Pipe)	
020	030	Bourdon 1 (Pipe)	
	031	Bourdon 2 (Pipe)	
	032	Gamba Pedal (Pipe)	
	033	Fagott (Pipe)	
021	000	Reed Organ	
022	000	Accordion French	2
	008	Accordion Italian	2
023	000	Harmonica	
	001	Melodion	
024	000	Tango Accordion	
	001	Jazz Accordion	
025	000	Nylon-string Guitar	
	008	Ukulele	
026	000	Steel-string Guitar	
	008	12-strings Guitar	2
	009	Nylon+Steel Guitar	2
	016	Mandolin	
027	000	Jazz Guitar	
	008	Hawaiian Guitar	M
028	000	Clean Guitar	
	008	Chorus Guitar	2
029	000	Muted Guitar	
	001	Country Guitar	
	008	Funk Guitar	
030	000	Overdrive Guitar	
031	000	Distortion Guitar	
	008	Feedback Guitar	2
032	000	Guitar Harmonics	
	008	Guitar Feedback	
033	000	Acoustic Bass	2
034	000	Electric Bass	2
	001	Finger Bass	2
035	000	Picked Bass	
036	000	Fretless Bass	2
037	000	Slap Bass 1	2
038	000	Slap Bass 2	2
039	000	Synth Bass 1	2
	001	Synth Bass 101	2
	008	Synth Bass 3	2
040	000	Synth Bass 2	2
	008	Synth Bass 4	2
	016	Rubber Bass	2
041	000	Violin	
	008	Slow Violin	
042	000	Viola	
043	000	Cello	
044	000	Contrabass	
045	000	Tremolo Strings	M
046	000	Pizzicato Strings	
047	000	Orchestral Harp	
048	000	Timpani	
049	000	Strings	
	001	Dull Strings	
	002	Detuned Strings	2
	008	Orchestra	2
050	000	Slow Strings	
051	000	Synth Strings 1	
	001	BBD Strings	
	002	Dull BBD Strings	
	008	Synth Strings 3	2
052	000	Synth Strings 2	2
053	000	Aah Choir	
	032	Slow Choir	
054	000	Doo Voice	
	001	Bop Voice	
055	000	Synth Voice	2
056	000	Orchestra Hit	
057	000	Trumpet 1	
	001	Trumpet 2	
058	000	Trombone 1	
	001	Trombone 2	2
	002	Trombone 3	
059	000	Tuba	
060	000	Muted Trumpet	
061	000	French Horns	2
	001	Flugel Horn	

< XT-100/XH-200 GM MODE INSTRUMENTS LIST >

(2):use 2 voices (S):not chromatic scale (M):can't control by modulation wheel *:after No. is drawbar registration

PROGRAM NUMBER	VARIATION NUMBER	INSTRUMENT NAME	EFFECT
062	000	Brass Section 1	
	001	Brass Fall Down	
	008	Brass Section 2	2
063	000	Synth Brass 1	2
	008	Synth Brass 3	2
	016	Analog Brass 1	2
064	000	Synth Brass 2	2
	008	Synth Brass 4	
	016	Analog Brass 2	2
065	000	Soprano Sax	
066	000	Alto Sax f	
	008	Alto Sax p	
	008	Alto Sax p	
067	000	Tenor Sax f	
	001	Overblown Sax	
	002	Tenor Sax Velocity	2
	008	Tenor Sax p	
068	000	Baritone Sax	
069	000	Oboe	
070	000	English Horn	
071	000	Bassoon	
072	000	Clarinet	
073	000	Piccolo	
074	000	Flute 1	
	001	Flute 2	2
075	000	Recorder 1	
	001	Recorder 2	2
076	000	Pan Flute	
077	000	Bottle Blow	2
078	000	Shakuhachi	2
079	000	Whistle	
080	000	Ocarina	
081	000	Square Lead	2
	001	Square	
	008	Sine Wave	
082	000	Saw Lead	2
	001	Saw	
	008	Dr.Solo	2
083	000	Calliope Lead	2
084	000	Chiffer Lead	2
085	000	Charang Lead	2
086	000	Voice Lead	2
087	000	Fifth Lead	2
088	000	Bass & Lead	2
089	000	New Age Pad	2
090	000	Warm Pad	2
091	000	Polysynth Pad	2
092	000	Choir Pad	2
093	000	Bowed Pad	2
094	000	Metal Pad	2 M
095	000	Halo Pad	2
096	000	Sweep Pad	2 M
097	000	Ice Rain	2
098	000	Soundtrack	2 M
099	000	Crystal	2
	001	Synth Mallet	
100	000	Atmosphere	2
101	000	Brightness	2
102	000	Goblin	2
103	000	Echo Drops	
	001	Echo Bell	2
	002	Echo Pan	2
104	000	Sci-Fi	2
105	000	Sitar 1	
	001	Sitar 2	2
106	000	Banjo	
107	000	Shamisen	
	001	Tsugaru Shamisen	2
108	000	Koto	
	008	Taisho Koto	2
109	000	Kalimba	
110	000	Bagpipe	
111	000	Fiddle	
112	000	Shanai	
113	000	Tinkle Bell	2
114	000	Agogo	
115	000	Steel Drum	

PROGRAM NUMBER	VARIATION NUMBER	INSTRUMENT NAME	EFFECT
116	000	Woodblock	S
	008	Castanet	S
117	000	Taiko Drum	S
	001	Shime Taiko	S
	002	Gong	S
	008	Concert Bass Drum	S
118	000	Melodic Tom 1	S
	008	Melodic Tom 2	S
119	000	Synth Tom	S
	008	Analog Tom	S
120	000	Reverse Cymbal 1	2 S
	001	Reverse Cymbal 2	2 S
121	000	Guitar Fret Noise	
	001	Guitar Cutting Noise	S
	002	String Slap	S
122	000	Breath Noise	
	001	Flute Key Click	S
123	000	Seashore	2 S
	001	Rain	2 S
	002	Thunder	S
	003	Wind	S M
	004	Stream	2 S M
	005	Bubble	2 S
124	000	Bird Tweet 1	2 S
	001	Dog	S
	002	Horse Gallop	S
	003	Bird Tweet 2	S M
125	000	Telephone Ring 1	S
	001	Telephone Ring 2	S
	002	Door Creaking	S
	003	Door Slam	S
	004	Scratch	S
126	000	Helicopter	S
	001	Car Engine	S
	002	Car Stop	S
	003	Car Pass	S
126	004	Car Crash	2 S
	005	Siren	S
	006	Train / SL	S
	007	Jet Plane	2 S M
	008	Star Ship	2 S M
127	009	Burst Noise	2 S M
	000	Applause	2 S
	001	Laughing	S
	002	Scream	S
	003	Punch	S
128	004	Heart Beat	S
	005	Foot Step	S
	000	Gun Shot	S
	001	Machine Gun	S
	002	Laser Gun	S
128	003	Explosion	2 S

< XT-100/XH-200 GM MODE DRUM SETS LIST >

BLANK:the same percussion as STANDARD Set PC#:program number (drum set number)

-----:make no sound

[EXC]:the percussions of same number make no sound at the same time

(2):use 2 voices (all the other percussions use 1 voice)

NOTE NUMBER	PC#001: STANDARD Set		PC#009: ROOM Set	PC#017: POWER Set	PC#025: ELECTRONIC Set
	No	NAME			
	24	1C	Tabla Te		
	25	1C#	Tabla Tun		
	26	1D	Tabla Ge		
	27	1D#	High Q		
	28	1E	Slap		
	29	1F	Scratch Push		
	30	1F#	Scratch Pull		
	31	1G	Sticks		
	32	1G#	Square Click		
	33	1A	Metronome Click		
	34	1A#	Metronome Bell		
	35	1B	Kick Drum 2		
	36	2C	Kick Drum 1	MONDO Kick	Elec BD
	37	2C#	Side Stick		
	38	2D	Snare Drum 1	Gated SD	Elec SD
	39	2D#	Hand Clap		
	40	2E	Snare Drum 2		Gated SD
	41	2F	Low Tom 2	Room Low Tom 2	Elec Low Tom 2
	42	2F#	Closed Hi-hat [EXC1]		
	43	2G	Low Tom 1	Room Low Tom 1	Elec Low Tom 1
	44	2G#	Pedal Hi-hat [EXC1]		
	45	2A	Mid Tom 2	Room Mid Tom 2	Elec Mid Tom 2
	46	2A#	Open Hi-hat [EXC1]		
	47	2B	Mid Tom 1	Room Mid Tom 1	Elec Mid Tom 1
	48	3C	High Tom 2	Room High Tom 2	Elec High Tom 2
	49	3C#	Crash Cymbal 1		
	50	3D	High Tom 1	Room High Tom 1	Elec High Tom 1
	51	3D#	Ride Cymbal 1		
	52	3E	Chinese Cymbal		Revs. Cymbal (2)
	53	3F	Ride Bell		
	54	3F#	Tambourine		
	55	3G	Splash Cymbal		
	56	3G#	Cowbell		
	57	3A	Crash Cymbal 2		
	58	3A#	Vibra-slap		
	59	3B	Ride Cymbal 2		
	60	4C	High Bongo		
	61	4C#	Low Bongo		
	62	4D	Mute High Conga		
	63	4D#	Open High Conga		
	64	4E	Low Conga		
	65	4F	High Timbale		
	66	4F#	Low Timbale		
	67	4G	High Agogo		
	68	4G#	Low Agogo		
	69	4A	Cabasa		
	70	4A#	Maracas		
	71	4B	Short Hi Whistle [EXC2]		
	72	5C	Long Low Whistle [EXC2]		
	73	5C#	Short Guiro [EXC3]		
	74	5D	Long Guiro [EXC3]		
	75	5D#	Claves		
	76	5E	High Wood Block		
	77	5F	Low Wood Block		
	78	5F#	Mute Cuica [EXC4]		
	79	5G	Open Cuica [EXC4]		
	80	5G#	Mute Triangle [EXC5]		
	81	5A	Open Triangle [EXC5]		
	82	5A#	Shaker		
	83	5B	Jingle Bell		
	84	6C	Bell Tree		
	85	6C#	Castanets		
	86	6D	Mute Surdo [EXC6]		
	87	6D#	Open Surdo [EXC6]		
	88	6E		-----	
	89	6F		-----	
	90	6F#		-----	
	91	6G	Suzu		-----
	92	6G#	Finger Snap		
	93	6A	Snare Drum Roll		
	94	6A#	Konchiki (Kon)		-----
	95	6B	Konchiki (Chiki)		-----
	96	7C	Konchiki (Kosuri)		-----
	97	7C#	Taiko		-----
	98	7D	Taiko Rim		-----
	99	7D#	Shime Taiko		-----
	100	7E	Tsuzumi		-----
	101	7F	Rain		-----
	102	7F#	Seashore		-----
	103	7G	SL Pass		-----
	104	7G#	SL Whistle		-----
	105	7A	Dora		-----

< XT-100/XH-200 GM MODE DRUM SETS LIST >

BLANK:the same percussion as STANDARD Set PC#:program number (drum set number) -----:make no sound
 [EXC]:the percussions of same number make no sound at the same time (2):use 2 voices (all the other percussions use 1 voice)

NOTE NUMBER	No	NAME	PC#026: ANALOG Set	PC#033: JAZZ Set	PC#041: BRUSH Set	PC#049: ORCHESTRA Set	PC#057: SFX Set
	24	1C					-----
	25	1C#					-----
	26	1D					-----
	27	1D#				Closed Hi-hat [EXC1]	-----
	28	1E				Pedal Hi-hat [EXC1]	-----
	29	1F				Open Hi-hat [EXC1]	-----
	30	1F#				Ride Cymbal	-----
	31	1G					-----
	32	1G#					-----
	33	1A					Metronome Click
	34	1A#					Metronome Bell
	35	1B		Jazz BD 2	Jazz BD 2	Concert BD 2	-----
	36	2C	Analog BD	Jazz BD 1	Jazz BD 1	Concert BD 1	-----
	37	2C#	Analog Rim Shot				-----
	38	2D	Analog SD 1	Jazz SD 1	Brush Tap	Concert SD	-----
	39	2D#			Brush Slap	Castanets	High Q
	40	2E	Analog SD 2	Jazz SD 2	Brush Swirl	Concert SD	Slap
	41	2F	Analog Low Tom 2		Br. Low Tom 2	Timpani F	Scratch Push [EXC7]
	42	2F#	Analog CHH [EXC1]			Timpani F#	Scratch Pull [EXC7]
	43	2G	Analog Low Tom 1		Br. Low Tom 1	Timpani G	Sticks
	44	2G#	Analog CHH [EXC1]			Timpani G#	Square Click
	45	2A	Analog Mid Tom 2		Br. Mid Tom 2	Timpani A	Metronome Click
	46	2A#	Analog OHH [EXC1]			Timpani A#	Metronome Bell
	47	2B	Analog Mid Tom 1		Br. Mid Tom 1	Timpani B	Guitar sliding finger
	48	3C	Analog High Tom 2		Br. High Tom 2	Timpani c	Guitar cutting noise(down)
	49	3C#	Analog Cymbal			Timpani c#	Guitar cutting noise (up)
	50	3D	Analog High Tom 1		Br. High Tom 1	Timpani d	String slap of double bass
	51	3D#				Timpani d#	Fl. Key Click
	52	3E				Timpani e	Laughing
	53	3F				Timpani f	Screaming
	54	3F#					Punch
	55	3G					Heart Beat
	56	3G#	Analog Cowbell				Footsteps 1
	57	3A				Concert Cymbal 2	Footsteps 2
	58	3A#					Applause (2)
	59	3B				Concert Cymbal 1	Door Creaking
	60	4C					Door
	61	4C#					Scratch
	62	4D	Analog Hi Conga				Windchime (2)
	63	4D#	Analog Mid Conga				Car-Engine
	64	4E	Analog Low Conga				Car-Stop
	65	4F					Car-Pass
	66	4F#					Car-Crash (2)
	67	4G					Siren
	68	4G#					Train
	69	4A					Jetplane (2)
	70	4A#	Analog Maracas				Helicopter
	71	4B					Starship (2)
	72	5C					Gun Shot
	73	5C#					Machine Gun
	74	5D					Laser gun
	75	5D#	Analog Claves				Explosion (2)
	76	5E					Dog
	77	5F					Horse-Gallop
	78	5F#					Birds (2)
	79	5G					Rain (2)
	80	5G#					Thunder
	81	5A					Wind
	82	5A#					Seashore (2)
	83	5B					Stream (2)
	84	6C					Bubble (2)
	85	6C#					-----
	86	6D					One
	87	6D#					-----
	88	6E		-----		Applause (2)	Two
	89	6F		-----			Three
	90	6F#			-----		
	91	6G					Hit It
	92	6G#					-----
	93	6A		-----			Snare Drum Roll
	94	6A#			-----		
	95	6B			-----		
	96	7C			-----		
	97	7C#			-----		
	98	7D			-----		
	99	7D#			-----		
	100	7E			-----		
	101	7F			-----		
	102	7F#			-----		
	103	7G			-----		
	104	7G#			-----		
	105	7A			-----		

Model: XT-100
XH-200

MIDI Implementation Chart <ORGAN MODE>

Date: Oct. 1, 1997
Version: 1.0

Function...			Transmitted	Recognized	Remarks
Basic Channel	Default		1	1	Upper ch *1
	Changed		1-16	1-16	
Mode	Default		Mode 3	Mode 3	
	Changed		X	X	
	Altered		*****	*****	
Note Number:	True voice		36-96	36-96	Transpose +-6

Velocity	Note ON		O	O	
	Note OFF		X	X	
After Touch	Key's		X	X	
	Ch's		X	X	
Pitch Bend			O	O	
Control Change	Bank Select MSB	0	X	O	Sub ch only
	Modulation	1	O	O	
	Expression	11	O	O	Expression ch
	Tremolo	92	O	O	Control ch
	NRPN MSB,LSB	99,98	O	O	Control ch
	RPN MSB,LSB	101,100	O	O	Control ch
	DATA MSB,LSB	6,26	O	O	Control ch
	UM Drawbar	80	O	O	Control ch
	LM Drawbar	81	O	O	Control ch
	PK Drawbar	82	O	O	Control ch
Prog Change	:True#		O 1-101,127	O 1-101,127	Preset ch
			*****		10 Banks * 10 Presets + Canc and Rhythm Preset
System Exclusive			O	O	
Common	:Song		X	X	
	:Song Sel		X	X	
	:Tune		X	X	
System	:Clock		O	X	
Real Time	:Commands		O Start,Stop	X	
Aux	:Local ON/OFF		X	X	(123)
	:All Notes OFF		O	O	
Messages	:Active Sense		O	O	
	:Reset		X	X	
Notes			*1:Lower ch:2 Sub 3 ch:6 Pedal ch:3 Sub 4 ch:7 Sub 1 ch:4 Drum ch:10 Sub 2 ch:5 Control ch:16		

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

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

O: Yes
X: No

Model: XT-100
XH-200

MIDI Implementation Chart
<GM MODE>

Date:Nov.16,1998
Version:1.1

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1-16	
	Changed	1-16	*****	
Mode	Default	Mode 3	Mode 3	
	Changed	X	X	
	Altered	*****	*****	
Note Number:		36-96	0-127	
	True voice	*****	0-127	
Velocity	Note ON	O	O	
	Note OFF	X	X	
After Touch	Key's	X	X	
	Ch's	X	X	
Pitch Bend		O	O	
Control Change	Bank Select MSB	0	O	
	Modulation	1	O	
	Volume	7	O	
	Panpot	10	O	
	Expression	11	O	
	Hold 1	64	O	
	Reverb	91	O	
	Chorus	93	O	
	NRPN MSB,LSB	99,98	O	
	RPN MSB,LSB	101,100	O	*1
	DATA MSB,LSB	6,26	O	
	All sound off	120	O	
	Reset all controller	121	O	
Prog Change :True#		O 1-101,127 *****	O 1-128	
System Exclusive		O	O	
Common	:Song	X	X	
	:Song Sel	X	X	
	:Tune	X	X	
System Real Time	:Clock	X	X	
	:Commands	X	X	
Aux Messages	:Local ON/OFF	X	X	
	:All Notes OFF	O	O	(123)
	:Active Sense	O	O	
	:Reset	X	X	
Notes		*1: Pitch Bend Sensitivity Coarse Tune Fine Tune		

Mode 1:OMNI ON,POLY

Mode 2:OMNI ON,MONO

O:Yes

Mode 3:OMNI OFF,POLY

Mode 4:OMNI OFF,MONO

X:No

< DRAWBAR MIDI DATA >

CONTROL CHANGE Bx 50h(80) yy:UPPER
 Bx 51h(81) yy:UPPER
 Bx 52h(82) yy:UPPER

x:Control channel number (default=Fh:16)
 yy:data

	UPPER/LOWER DATA:yy									PEDAL DATA:yy	
FOOTAGE	16'	5 1/3'	8'	4'	2 2/3'	2'	1 3/5'	1 1/3'	1'	16'	8'
Level 0	00H (0)	09H (9)	12H (18)	1BH (27)	24H (36)	2DH (45)	36H (54)	3FH (63)	48H (72)	00H (0)	09H (9)
Level 1	01H (1)	0AH (10)	13H (19)	1CH (28)	25H (37)	2EH (46)	37H (55)	40H (64)	49H (73)	01H (1)	0AH (10)
Level 2	02H (2)	0BH (11)	14H (20)	1DH (29)	26H (38)	2FH (47)	38H (56)	41H (65)	4AH (74)	02H (2)	0BH (11)
Level 3	03H (3)	0CH (12)	15H (21)	1EH (30)	27H (39)	30H (48)	39H (57)	42H (66)	4BH (75)	03H (3)	0CH (12)
Level 4	04H (4)	0DH (13)	16H (22)	1FH (31)	28H (40)	31H (49)	3AH (58)	43H (67)	4CH (76)	04H (4)	0DH (13)
Level 5	05H (5)	0EH (14)	17H (23)	20H (32)	29H (41)	32H (50)	3BH (59)	44H (68)	4DH (77)	05H (5)	0EH (14)
Level 6	06H (6)	0FH (15)	18H (24)	21H (33)	2AH (42)	33H (51)	3CH (60)	45H (69)	4EH (78)	06H (6)	0FH (15)
Level 7	07H (7)	10H (16)	19H (25)	22H (34)	2BH (43)	34H (52)	3DH (61)	46H (70)	4FH (79)	07H (7)	10H (16)
Level 8	08H (8)	11H (17)	1AH (26)	23H (35)	2CH (44)	35H (53)	3EH (62)	47H (71)	50H (80)	08H (8)	11H (17)

< SYSTEM EXCLUSIVE MESSAGE >

1.FORMAT

F0H	System Exclusive
55H	SUZUKI ID Number
00H	Device Number
10H	Model ID Number(High)
0AH	Model ID Number(Low)
11H	Command (Data packet)
[BODY]	DATA
F7H	End of Exclusive

2.BODY

02H	Data Type(02H:User program)
[PNH]	Packet Number(High) 0001H to 7F7FH
[PNL]	Packet Number(Low)
[DATA]	256byte ASCII(128 byte data)
[SUM]	Check Sum(7 bit)
	256 byte ASCII XOR

4.HAND SHAKE COMMUNICATION

(One way transfer)

Master(XT-100,XH-200)			Slave
Data out	Packet 1	->	
		<-	Acknowledge
Data out	Packet 2	->	
		<-	Acknowledge
		:	
		:	
Data out	Packet 65	->	
		<-	Acknowledge

3.ACKNOWLEDGE

F0H	System Exclusive
55H	SUZUKI ID Number
00H	Device Number
10H	Model ID Number(High)
0AH	Model ID Number(Low)
14H	Command Acknowledge
[AK]	AK Type 00H: Normal
	01H: Check Sum Error
	02H: Protect SW On
[PNH]	Packet Number (High)
[PNL]	Packet Number (Low)
F7H	End of Exclusive

The organ will wait for the data for 20ms if no acknowledge is received and transmit the next data of the packet number.(One way transfer)

