



**YAMAHA**

*Clavinova®*

**Data List**  
**Daten-Liste**  
**Liste des données**  
**Lista de datos**

**CVP-202**

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# Voice List / Stimmenverzeichnis / Liste des voix / Lista de voces

.....

| Voice Group       | Voice Name   | Voice # |       |                          |
|-------------------|--------------|---------|-------|--------------------------|
|                   |              | MSB #   | LSB # | Program Change # (0-127) |
| Piano & Harpsi.   | GrandPiano 1 | 0       | 122   | 0                        |
|                   | GrandPiano 2 | 0       | 112   | 0                        |
|                   | BrightPiano1 | 0       | 112   | 1                        |
|                   | Harpsichord1 | 0       | 122   | 6                        |
|                   | GrandHarpsi1 | 0       | 123   | 6                        |
|                   | Honky Tonk   | 0       | 112   | 3                        |
|                   | Rock Piano   | 0       | 114   | 2                        |
|                   | Midi Grand   | 0       | 112   | 2                        |
|                   | CP 80        | 0       | 113   | 2                        |
|                   | Oct. Piano 1 | 0       | 113   | 3                        |
|                   | Oct. Piano 2 | 0       | 114   | 3                        |
|                   | GrandPiano 3 | 0       | 116   | 0                        |
|                   | GrandPiano 4 | 0       | 115   | 0                        |
|                   | BrightPiano2 | 0       | 116   | 1                        |
|                   | BrightPiano3 | 0       | 115   | 1                        |
|                   | Harpsichord2 | 0       | 112   | 6                        |
|                   | GrandHarpsi2 | 0       | 113   | 6                        |
| E.Piano           | Galaxy EP    | 0       | 114   | 4                        |
|                   | Polaris EP   | 0       | 115   | 4                        |
|                   | Hyper Tines  | 0       | 113   | 5                        |
|                   | New Tines    | 0       | 116   | 5                        |
|                   | Funk EP      | 0       | 112   | 4                        |
|                   | DX Modern    | 0       | 112   | 5                        |
|                   | Modern EP    | 0       | 115   | 5                        |
|                   | Tremolo EP   | 0       | 113   | 4                        |
|                   | Super DX     | 0       | 117   | 5                        |
|                   | Clavi        | 0       | 112   | 7                        |
|                   | Suitcase EP  | 0       | 118   | 4                        |
|                   | Venus EP     | 0       | 114   | 5                        |
|                   | Wah Clavi    | 0       | 113   | 7                        |
| Organ & Accordion | Church Organ | 0       | 123   | 19                       |
|                   | Pipe Organ   | 0       | 112   | 19                       |
|                   | ChapelOrgan1 | 0       | 113   | 19                       |
|                   | ChapelOrgan2 | 0       | 114   | 19                       |
|                   | ChapelOrgan3 | 0       | 115   | 19                       |
|                   | Rock Organ 1 | 0       | 112   | 18                       |
|                   | Dance Organ  | 0       | 113   | 17                       |
|                   | Gospel Organ | 0       | 119   | 16                       |
|                   | Purple Organ | 0       | 114   | 18                       |
|                   | Jazz Organ 1 | 0       | 112   | 16                       |
|                   | Rock Organ 2 | 0       | 113   | 18                       |
|                   | Elec. Organ  | 0       | 118   | 17                       |
|                   | DrawbarOrgan | 0       | 115   | 16                       |
|                   | Click Organ  | 0       | 112   | 17                       |
|                   | Mellow Draw  | 0       | 115   | 17                       |
|                   | Jazz Organ 2 | 0       | 113   | 16                       |
|                   | Bright Draw  | 0       | 116   | 16                       |
|                   | 60's Organ   | 0       | 116   | 17                       |
|                   | Jazz Organ 3 | 0       | 120   | 16                       |
|                   | Blues Organ  | 0       | 117   | 17                       |
|                   | 16'+1' Organ | 0       | 121   | 16                       |
|                   | 16'+2' Organ | 0       | 122   | 16                       |
|                   | 16'+4' Organ | 0       | 123   | 16                       |
|                   | TheatreOrgn1 | 0       | 114   | 16                       |
|                   | TheatreOrgn2 | 0       | 114   | 17                       |
|                   | Musette      | 0       | 112   | 21                       |
|                   | Tutti Accord | 0       | 113   | 21                       |
|                   | Accordion    | 0       | 115   | 21                       |
|                   | Tango Accord | 0       | 112   | 23                       |
|                   | Bandoneon    | 0       | 113   | 23                       |
|                   | Soft Accord  | 0       | 114   | 21                       |
|                   | Blues Harp   | 0       | 114   | 22                       |
|                   | Harmonica    | 0       | 112   | 22                       |
|                   | Reed Organ   | 0       | 112   | 20                       |
| Percussion        | Vibraphone   | 0       | 112   | 11                       |
|                   | Jazz Vibes   | 0       | 113   | 11                       |

| Voice Group | Voice Name   | Voice # |       |                          |
|-------------|--------------|---------|-------|--------------------------|
|             |              | MSB #   | LSB # | Program Change # (0-127) |
|             | Marimba      | 0       | 112   | 12                       |
|             | Xylophone    | 0       | 112   | 13                       |
|             | Steel Drums  | 0       | 112   | 114                      |
|             | Celesta      | 0       | 112   | 8                        |
|             | Glocken      | 0       | 112   | 9                        |
|             | Music Box    | 0       | 112   | 10                       |
|             | Tubular Bell | 0       | 112   | 14                       |
|             | Kalimba      | 0       | 112   | 108                      |
|             | Dulcimer     | 0       | 112   | 15                       |
|             | Timpani      | 0       | 112   | 47                       |
|             | StandardKit1 | 127     | 0     | 0                        |
|             | StandardKit2 | 127     | 0     | 1                        |
|             | Room Kit     | 127     | 0     | 8                        |
|             | Rock Kit     | 127     | 0     | 16                       |
|             | Electro Kit  | 127     | 0     | 24                       |
|             | Analog Kit   | 127     | 0     | 25                       |
|             | Dance Kit    | 127     | 0     | 27                       |
|             | Jazz Kit     | 127     | 0     | 32                       |
|             | Brush Kit    | 127     | 0     | 40                       |
|             | Symphony Kit | 127     | 0     | 48                       |
|             | StyStd. Kit  | 127     | 0     | 80                       |
|             | StyBrush Kit | 127     | 0     | 82                       |
|             | SFX Kit 1    | 126     | 0     | 0                        |
|             | SFX Kit 2    | 126     | 0     | 1                        |
| Guitar      | Spanish Gtr. | 0       | 113   | 24                       |
|             | Cool E.Gtr.  | 0       | 114   | 28                       |
|             | 12Str.Guitar | 0       | 113   | 25                       |
|             | Solid Guitar | 0       | 118   | 27                       |
|             | Vintage Amp  | 0       | 115   | 29                       |
|             | Pedal Steel  | 0       | 125   | 27                       |
|             | FeedbackGtr. | 0       | 113   | 29                       |
|             | Funk Guitar  | 0       | 113   | 28                       |
|             | 60's Clean   | 0       | 117   | 27                       |
|             | Vintage Open | 0       | 123   | 27                       |
|             | Vintage Mute | 0       | 115   | 28                       |
|             | Folk Guitar  | 0       | 112   | 25                       |
|             | ChorusGuitar | 0       | 124   | 27                       |
|             | Vintage Trem | 0       | 120   | 27                       |
|             | OctaveGuitar | 0       | 113   | 26                       |
|             | Deep Chorus  | 0       | 114   | 27                       |
|             | CampfireGtr. | 0       | 115   | 25                       |
|             | Smooth Nylon | 0       | 114   | 24                       |
|             | Tremolo Gtr. | 0       | 113   | 27                       |
|             | HawaiianGtr. | 0       | 114   | 26                       |
|             | Bright Clean | 0       | 116   | 27                       |
|             | Wah Guitar   | 0       | 122   | 27                       |
|             | Classic Gtr. | 0       | 112   | 24                       |
|             | Distortion   | 0       | 112   | 30                       |
| Bass        | Elec. 12Str. | 0       | 119   | 27                       |
|             | Mandolin     | 0       | 114   | 25                       |
|             | Clean Guitar | 0       | 112   | 27                       |
|             | Muted Guitar | 0       | 112   | 28                       |
|             | FolkGw_pick1 | 0       | 116   | 25                       |
|             | FolkGw_pick2 | 0       | 117   | 25                       |
|             | FolkGw_pick3 | 0       | 118   | 25                       |
|             | Jazz Guitar  | 0       | 112   | 26                       |
|             | Overdrive    | 0       | 112   | 29                       |
|             | Finger Bass  | 0       | 112   | 33                       |
|             | UprightBass  | 0       | 113   | 32                       |
|             | Pick Bass    | 0       | 112   | 34                       |
|             | SuperFretles | 0       | 113   | 35                       |
|             | Slap Bass    | 0       | 112   | 36                       |
|             | Analog Bass  | 0       | 112   | 39                       |
|             | Hi Q Bass    | 0       | 113   | 38                       |
|             | Funk Bass    | 0       | 112   | 37                       |
|             | Aco. Bass    | 0       | 112   | 32                       |

# Voice List / Stimmenverzeichnis / Liste des voix / Lista de voces.....

| Voice Group | Voice Name   | Voice # |       |                          |
|-------------|--------------|---------|-------|--------------------------|
|             |              | MSB #   | LSB # | Program Change # (0-127) |
| Brass       | Fretless     | 0       | 112   | 35                       |
|             | Bass&Cymbal  | 0       | 114   | 32                       |
|             | Fusion Bass  | 0       | 113   | 36                       |
|             | Rave Bass    | 0       | 114   | 38                       |
|             | Dance Bass   | 0       | 113   | 39                       |
|             | Synth Bass   | 0       | 112   | 38                       |
|             | SweetTrumpet | 0       | 115   | 56                       |
|             | Trombone     | 0       | 112   | 57                       |
|             | MutedTrumpet | 0       | 112   | 59                       |
|             | Flugel Horn  | 0       | 113   | 56                       |
|             | Soft Trumpet | 0       | 114   | 56                       |
|             | BrassSection | 0       | 112   | 61                       |
|             | Mellow Brass | 0       | 116   | 61                       |
|             | BigBandBrass | 0       | 113   | 61                       |
|             | Pop Brass    | 0       | 118   | 61                       |
|             | Brass Combo  | 0       | 115   | 66                       |
|             | Solo Trumpet | 0       | 112   | 56                       |
|             | Mellow Tromb | 0       | 114   | 57                       |
|             | Trb. Section | 0       | 113   | 57                       |
|             | French Horn  | 0       | 112   | 60                       |
| WoodWind    | Mellow Horns | 0       | 119   | 61                       |
|             | Bright Brass | 0       | 120   | 61                       |
|             | Full Horns   | 0       | 114   | 61                       |
|             | High Brass   | 0       | 115   | 61                       |
|             | Ballroom Brs | 0       | 113   | 59                       |
|             | Small Brass  | 0       | 117   | 61                       |
|             | 80's Brass   | 0       | 113   | 62                       |
|             | Analog Brass | 0       | 112   | 63                       |
|             | Techno Brass | 0       | 114   | 62                       |
|             | Synth Brass  | 0       | 112   | 62                       |
|             | Brass Hit    | 0       | 126   | 61                       |
|             | Tuba         | 0       | 112   | 58                       |
|             | Sweet Tenor  | 0       | 117   | 66                       |
|             | Breathy Alto | 0       | 113   | 65                       |
|             | Soprano Sax  | 0       | 112   | 64                       |
|             | Clarinet     | 0       | 112   | 71                       |
|             | Sweet Flute  | 0       | 114   | 73                       |
|             | Tenor Sax    | 0       | 112   | 66                       |
|             | Pan Flute    | 0       | 113   | 73                       |
|             | Oboe         | 0       | 112   | 68                       |
| Strings     | English Horn | 0       | 112   | 69                       |
|             | Baritone Sax | 0       | 112   | 67                       |
|             | Breath Tenor | 0       | 114   | 66                       |
|             | Alto Sax     | 0       | 112   | 65                       |
|             | MelClarinet  | 0       | 113   | 71                       |
|             | Bassoon      | 0       | 112   | 70                       |
|             | ClassicFlute | 0       | 115   | 73                       |
|             | Piccolo      | 0       | 112   | 72                       |
|             | Ethnic Flute | 0       | 112   | 75                       |
|             | Flute        | 0       | 112   | 73                       |
|             | Shakuhachi   | 0       | 112   | 77                       |
|             | Whistle      | 0       | 112   | 78                       |
|             | Recorder     | 0       | 112   | 74                       |
|             | Ocarina      | 0       | 112   | 79                       |
|             | WoodwindEns. | 0       | 113   | 66                       |
|             | Sax Section  | 0       | 116   | 66                       |
|             | Bagpipe      | 0       | 112   | 109                      |
|             | Orch.Strings | 0       | 113   | 48                       |
|             | Symphon.Strs | 0       | 114   | 48                       |
|             | Strings      | 0       | 112   | 48                       |
|             | Slow Strings | 0       | 113   | 49                       |
|             | Chamber Strs | 0       | 112   | 49                       |
|             | SynthStrings | 0       | 112   | 50                       |
|             | ConcertoStrs | 0       | 115   | 48                       |
|             | Orch. Brass  | 0       | 118   | 49                       |
|             | Orch. Flute  | 0       | 119   | 49                       |

| Voice Group | Voice Name   | Voice # |       |                          |
|-------------|--------------|---------|-------|--------------------------|
|             |              | MSB #   | LSB # | Program Change # (0-127) |
|             | Orch. Oboe   | 0       | 121   | 49                       |
|             | Solo Violin  | 0       | 112   | 40                       |
|             | Soft Violin  | 0       | 113   | 40                       |
|             | Fiddle       | 0       | 112   | 110                      |
|             | Viola        | 0       | 112   | 41                       |
|             | Cello        | 0       | 112   | 42                       |
|             | Contrabass   | 0       | 112   | 43                       |
|             | Str. Quartet | 0       | 114   | 49                       |
|             | Bow Strings  | 0       | 116   | 48                       |
|             | Marcato Strs | 0       | 115   | 49                       |
|             | Tremolo Strs | 0       | 112   | 44                       |
|             | Pizz.Strings | 0       | 112   | 45                       |
|             | Analog Strs  | 0       | 112   | 51                       |
|             | Tech Strings | 0       | 113   | 50                       |
|             | Harp         | 0       | 112   | 46                       |
|             | Hackbrett    | 0       | 113   | 46                       |
|             | Banjo        | 0       | 112   | 105                      |
|             | Sitar        | 0       | 112   | 104                      |
|             | Koto         | 0       | 112   | 107                      |
|             | Shamisen     | 0       | 112   | 106                      |
| Choir & Pad | Orch. Hit    | 0       | 112   | 55                       |
|             | Gothic Vox   | 0       | 113   | 53                       |
|             | Vocal Ens.   | 0       | 113   | 52                       |
|             | Vox Humana   | 0       | 112   | 53                       |
|             | Choir        | 0       | 112   | 52                       |
|             | Air Choir    | 0       | 112   | 54                       |
|             | Cyber Pad    | 0       | 113   | 99                       |
|             | Fantasia     | 0       | 112   | 88                       |
|             | Insomnia     | 0       | 113   | 94                       |
|             | Wave 2001    | 0       | 112   | 95                       |
|             | Atmosphere   | 0       | 112   | 99                       |
|             | Xenon Pad    | 0       | 112   | 91                       |
|             | Equinox      | 0       | 112   | 94                       |
|             | DX Pad       | 0       | 112   | 92                       |
|             | Symbiont     | 0       | 113   | 88                       |
|             | Stargate     | 0       | 114   | 88                       |
|             | Area 51      | 0       | 112   | 89                       |
|             | Dark Moon    | 0       | 113   | 89                       |
|             | Ionosphere   | 0       | 115   | 94                       |
|             | Golden Age   | 0       | 115   | 88                       |
| Synth.      | Solaris      | 0       | 114   | 94                       |
|             | Millennium   | 0       | 117   | 88                       |
|             | Transform    | 0       | 113   | 95                       |
|             | Square Lead  | 0       | 112   | 80                       |
|             | Saw. Lead    | 0       | 112   | 81                       |
|             | Fire Wire    | 0       | 116   | 81                       |
|             | Analogon     | 0       | 115   | 81                       |
|             | Fargo        | 0       | 119   | 81                       |
|             | Blaster      | 0       | 114   | 81                       |
|             | Big Lead     | 0       | 113   | 81                       |
|             | Warp         | 0       | 117   | 81                       |
|             | Tiny Lead    | 0       | 118   | 80                       |
|             | Stardust     | 0       | 112   | 98                       |
|             | Aero Lead    | 0       | 112   | 83                       |
|             | Mini Lead    | 0       | 114   | 80                       |
|             | Sub Aqua     | 0       | 118   | 81                       |
|             | Sun Bell     | 0       | 113   | 98                       |
|             | Hi Bias      | 0       | 116   | 80                       |
|             | Viny lead    | 0       | 115   | 80                       |

# .....Voice List / Stimmenverzeichnis /Liste des voix / Lista de voces

## XG

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| GrandPno   | 0       | 0     | 0                        |
| GrndPnoK   | 0       | 1     | 0                        |
| MelloGrP   | 0       | 18    | 0                        |
| PianoStr   | 0       | 40    | 0                        |
| Dream      | 0       | 41    | 0                        |
| BritePno   | 0       | 0     | 1                        |
| BritPnoK   | 0       | 1     | 1                        |
| El.Grand   | 0       | 0     | 2                        |
| ElGrPnoK   | 0       | 1     | 2                        |
| Det.CP80   | 0       | 32    | 2                        |
| LayerCP1   | 0       | 40    | 2                        |
| LayerCP2   | 0       | 41    | 2                        |
| HnkyTonk   | 0       | 0     | 3                        |
| HnkyTnkK   | 0       | 1     | 3                        |
| E.Piano1   | 0       | 0     | 4                        |
| El.Pno1K   | 0       | 1     | 4                        |
| MelloEP1   | 0       | 18    | 4                        |
| Chor.EP1   | 0       | 32    | 4                        |
| HardEl.P   | 0       | 40    | 4                        |
| VX El.P1   | 0       | 45    | 4                        |
| 60sEl.P1   | 0       | 64    | 4                        |
| E.Piano2   | 0       | 0     | 5                        |
| El.Pno2K   | 0       | 1     | 5                        |
| Chor.EP2   | 0       | 32    | 5                        |
| DX Hard    | 0       | 33    | 5                        |
| DXLegend   | 0       | 34    | 5                        |
| DX Phase   | 0       | 40    | 5                        |
| DX+Analg   | 0       | 41    | 5                        |
| DXKotoEP   | 0       | 42    | 5                        |
| VX El.P2   | 0       | 45    | 5                        |
| Harpsi.    | 0       | 0     | 6                        |
| Harpsi.K   | 0       | 1     | 6                        |
| Harpsi.2   | 0       | 25    | 6                        |
| Harpsi.3   | 0       | 35    | 6                        |
| Clavi      | 0       | 0     | 7                        |
| Clavi K    | 0       | 1     | 7                        |
| ClaviWah   | 0       | 27    | 7                        |
| PulseClv   | 0       | 64    | 7                        |
| PierceCl   | 0       | 65    | 7                        |
| Celesta    | 0       | 0     | 8                        |
| Glocken    | 0       | 0     | 9                        |
| MusicBox   | 0       | 0     | 10                       |
| Orgel      | 0       | 64    | 10                       |
| Vibes      | 0       | 0     | 11                       |
| Vibes K    | 0       | 1     | 11                       |
| HardVibe   | 0       | 45    | 11                       |
| Marimba    | 0       | 0     | 12                       |
| MarimbaK   | 0       | 1     | 12                       |
| SineMrb    | 0       | 64    | 12                       |
| Balimba    | 0       | 97    | 12                       |
| Log Drum   | 0       | 98    | 12                       |
| Xylophon   | 0       | 0     | 13                       |
| TubulBel   | 0       | 0     | 14                       |
| ChrchBel   | 0       | 96    | 14                       |
| Carillon   | 0       | 97    | 14                       |
| Dulcimer   | 0       | 0     | 15                       |
| Dulcimer2  | 0       | 35    | 15                       |
| Cimbalom   | 0       | 96    | 15                       |
| Santur     | 0       | 97    | 15                       |
| DrawOrgn   | 0       | 0     | 16                       |

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| DetDrwOr   | 0       | 32    | 16                       |
| 60sDrOr1   | 0       | 33    | 16                       |
| 60sDrOr2   | 0       | 34    | 16                       |
| 70sDrOr1   | 0       | 35    | 16                       |
| DrawOrg2   | 0       | 36    | 16                       |
| 60sDrOr3   | 0       | 37    | 16                       |
| EvenBar    | 0       | 38    | 16                       |
| 16+2'2/3   | 0       | 40    | 16                       |
| Organ Ba   | 0       | 64    | 16                       |
| 70sDrOr2   | 0       | 65    | 16                       |
| CheezOrg   | 0       | 66    | 16                       |
| DrawOrg3   | 0       | 67    | 16                       |
| PercOrgn   | 0       | 0     | 17                       |
| 70sPcOr1   | 0       | 24    | 17                       |
| DetPrcOr   | 0       | 32    | 17                       |
| Lite Org   | 0       | 33    | 17                       |
| PercOrg2   | 0       | 37    | 17                       |
| RockOrgn   | 0       | 0     | 18                       |
| RotaryOr   | 0       | 64    | 18                       |
| SloRotar   | 0       | 65    | 18                       |
| FstRotar   | 0       | 66    | 18                       |
| ChrchOrg   | 0       | 0     | 19                       |
| ChurOrg3   | 0       | 32    | 19                       |
| ChurOrg2   | 0       | 35    | 19                       |
| NotreDam   | 0       | 40    | 19                       |
| OrgFlute   | 0       | 64    | 19                       |
| TrmOrgFl   | 0       | 65    | 19                       |
| ReedOrgn   | 0       | 0     | 20                       |
| Puff Org   | 0       | 40    | 20                       |
| Acordion   | 0       | 0     | 21                       |
| Accordlt   | 0       | 32    | 21                       |
| Harmnica   | 0       | 0     | 22                       |
| Harmo. 2   | 0       | 32    | 22                       |
| TangoAcd   | 0       | 0     | 23                       |
| TngoAcd2   | 0       | 64    | 23                       |
| NylonGtr   | 0       | 0     | 24                       |
| NylonGt2   | 0       | 16    | 24                       |
| NylonGt3   | 0       | 25    | 24                       |
| VelGtHrm   | 0       | 43    | 24                       |
| Ukulele    | 0       | 96    | 24                       |
| SteelGtr   | 0       | 0     | 25                       |
| SteelGt2   | 0       | 16    | 25                       |
| 12StrGtr   | 0       | 35    | 25                       |
| Nyln&Stl   | 0       | 40    | 25                       |
| Stl&Body   | 0       | 41    | 25                       |
| Mandolin   | 0       | 96    | 25                       |
| Jazz Gtr   | 0       | 0     | 26                       |
| MelloGtr   | 0       | 18    | 26                       |
| Jazz Amp   | 0       | 32    | 26                       |
| CleanGtr   | 0       | 0     | 27                       |
| ChorusGt   | 0       | 32    | 27                       |
| Mute Gtr   | 0       | 0     | 28                       |
| FunkGtr1   | 0       | 40    | 28                       |
| MuteStlG   | 0       | 41    | 28                       |
| FunkGtr2   | 0       | 43    | 28                       |
| Jazz Man   | 0       | 45    | 28                       |
| Ovrdrive   | 0       | 0     | 29                       |
| Gt.Pinch   | 0       | 43    | 29                       |
| Dist.Gtr   | 0       | 0     | 30                       |
| FeedbkGt   | 0       | 40    | 30                       |

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| FeedbGt2   | 0       | 41    | 30                       |
| GtrHarmo   | 0       | 0     | 31                       |
| GtFeedbk   | 0       | 65    | 31                       |
| GtrHrmo2   | 0       | 66    | 31                       |
| Aco.Bass   | 0       | 0     | 32                       |
| JazzRthm   | 0       | 40    | 32                       |
| VXUpgrht   | 0       | 45    | 32                       |
| FngrBass   | 0       | 0     | 33                       |
| FngrDrk    | 0       | 18    | 33                       |
| FlangeBa   | 0       | 27    | 33                       |
| Ba&DstEG   | 0       | 40    | 33                       |
| FngrSlap   | 0       | 43    | 33                       |
| FngBass2   | 0       | 45    | 33                       |
| Mod.Bass   | 0       | 65    | 33                       |
| PickBass   | 0       | 0     | 34                       |
| MutePkBa   | 0       | 28    | 34                       |
| Fretless   | 0       | 0     | 35                       |
| Fretles2   | 0       | 32    | 35                       |
| Fretles3   | 0       | 33    | 35                       |
| Fretles4   | 0       | 34    | 35                       |
| SynFretl   | 0       | 96    | 35                       |
| SmthFrt1   | 0       | 97    | 35                       |
| SlapBas1   | 0       | 0     | 36                       |
| ResoSlap   | 0       | 27    | 36                       |
| PunchThm   | 0       | 32    | 36                       |
| SlapBas2   | 0       | 0     | 37                       |
| VeloSlap   | 0       | 43    | 37                       |
| SynBass1   | 0       | 0     | 38                       |
| SynBa1Dk   | 0       | 18    | 38                       |
| FastResB   | 0       | 20    | 38                       |
| AcidBass   | 0       | 24    | 38                       |
| Clv Bass   | 0       | 35    | 38                       |
| TechnoBa   | 0       | 40    | 38                       |
| Orbiter    | 0       | 64    | 38                       |
| Sqr.Bass   | 0       | 65    | 38                       |
| RubberBa   | 0       | 66    | 38                       |
| Hammer     | 0       | 96    | 38                       |
| SynBass2   | 0       | 0     | 39                       |
| MelloSBa   | 0       | 6     | 39                       |
| Seq Bass   | 0       | 12    | 39                       |
| ClkSynBa   | 0       | 18    | 39                       |
| SynBa2Dk   | 0       | 19    | 39                       |
| SmthSynB   | 0       | 32    | 39                       |
| ModulrBa   | 0       | 40    | 39                       |
| DX Bass    | 0       | 41    | 39                       |
| X WireBa   | 0       | 64    | 39                       |
| Violin     | 0       | 0     | 40                       |
| Slow Vln   | 0       | 8     | 40                       |
| Viola      | 0       | 0     | 41                       |
| Cello      | 0       | 0     | 42                       |
| Contrabs   | 0       | 0     | 43                       |
| Trem.Str   | 0       | 0     | 44                       |
| SlwTrStr   | 0       | 8     | 44                       |
| Susp.Str   | 0       | 40    | 44                       |
| Pizz.Str   | 0       | 0     | 45                       |
| Harp       | 0       | 0     | 46                       |
| YangChin   | 0       | 40    | 46                       |
| Timpani    | 0       | 0     | 47                       |
| Strings1   | 0       | 0     | 48                       |
| S.Strngs   | 0       | 3     | 48                       |

**Voice List / Stimmenverzeichnis / Liste des voix / Lista de voces . . . . .**

**XG**

| Voice Name | Voice # |       |                             |
|------------|---------|-------|-----------------------------|
|            | MSB #   | LSB # | Program Change #<br>(0-127) |
| Slow Str   | 0       | 8     | 48                          |
| Arco Str   | 0       | 24    | 48                          |
| 60sStrng   | 0       | 35    | 48                          |
| Orchestr   | 0       | 40    | 48                          |
| Orchstr2   | 0       | 41    | 48                          |
| TremOrch   | 0       | 42    | 48                          |
| Velo.Str   | 0       | 45    | 48                          |
| Strings2   | 0       | 0     | 49                          |
| S.SlwStr   | 0       | 3     | 49                          |
| LegatoSt   | 0       | 8     | 49                          |
| Warm Str   | 0       | 40    | 49                          |
| Kingdom    | 0       | 41    | 49                          |
| 70s Str    | 0       | 64    | 49                          |
| Strings3   | 0       | 65    | 49                          |
| Syn Str1   | 0       | 0     | 50                          |
| Reso Str   | 0       | 27    | 50                          |
| Syn Str4   | 0       | 64    | 50                          |
| Syn Str5   | 0       | 65    | 50                          |
| Syn Str2   | 0       | 0     | 51                          |
| ChoirAah   | 0       | 0     | 52                          |
| S.Choir    | 0       | 3     | 52                          |
| Ch.Aahs2   | 0       | 16    | 52                          |
| MelChoir   | 0       | 32    | 52                          |
| ChoirStr   | 0       | 40    | 52                          |
| VoiceOoh   | 0       | 0     | 53                          |
| SynVoice   | 0       | 0     | 54                          |
| SyVoice2   | 0       | 40    | 54                          |
| Choral     | 0       | 41    | 54                          |
| AnaVoice   | 0       | 64    | 54                          |
| Orch.Hit   | 0       | 0     | 55                          |
| OrchHit2   | 0       | 35    | 55                          |
| Impact     | 0       | 64    | 55                          |
| Trumpet    | 0       | 0     | 56                          |
| Trumpet2   | 0       | 16    | 56                          |
| BriteTrp   | 0       | 17    | 56                          |
| Warm Trp   | 0       | 32    | 56                          |
| Trombone   | 0       | 0     | 57                          |
| Trmbone2   | 0       | 18    | 57                          |
| Tuba       | 0       | 0     | 58                          |
| Tuba 2     | 0       | 16    | 58                          |
| Mute Trp   | 0       | 0     | 59                          |
| Fr.Horn    | 0       | 0     | 60                          |
| FrHrSolo   | 0       | 6     | 60                          |
| FrHorn 2   | 0       | 32    | 60                          |
| HornOrch   | 0       | 37    | 60                          |
| BrssSect   | 0       | 0     | 61                          |
| Tp&TbSec   | 0       | 35    | 61                          |
| BrssSec2   | 0       | 40    | 61                          |
| HiBrass    | 0       | 41    | 61                          |
| MelloBrs   | 0       | 42    | 61                          |
| SynBrss1   | 0       | 0     | 62                          |
| Quack Br   | 0       | 12    | 62                          |
| RezSynBr   | 0       | 20    | 62                          |
| PolyBrss   | 0       | 24    | 62                          |
| SynBrss3   | 0       | 27    | 62                          |
| JumpBrss   | 0       | 32    | 62                          |
| AnVelBr1   | 0       | 45    | 62                          |
| AnVelBr2   | 0       | 64    | 62                          |
| SynBrss2   | 0       | 0     | 63                          |
| Soft Brs   | 0       | 18    | 63                          |
| SynBrss4   | 0       | 40    | 63                          |

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| ChoirBrs   | 0       | 41    | 63                       |
| VelBrss2   | 0       | 45    | 63                       |
| AnaBrss2   | 0       | 64    | 63                       |
| SprnoSax   | 0       | 0     | 64                       |
| Alto Sax   | 0       | 0     | 65                       |
| Sax Sect   | 0       | 40    | 65                       |
| HyprAlto   | 0       | 43    | 65                       |
| TenorSax   | 0       | 0     | 66                       |
| BrthTnSx   | 0       | 40    | 66                       |
| SoftTenr   | 0       | 41    | 66                       |
| TnrSax 2   | 0       | 64    | 66                       |
| Bari.Sax   | 0       | 0     | 67                       |
| Oboe       | 0       | 0     | 68                       |
| Eng.Horn   | 0       | 0     | 69                       |
| Bassoon    | 0       | 0     | 70                       |
| Clarinet   | 0       | 0     | 71                       |
| Piccolo    | 0       | 0     | 72                       |
| Flute      | 0       | 0     | 73                       |
| Recorder   | 0       | 0     | 74                       |
| PanFlute   | 0       | 0     | 75                       |
| Bottle     | 0       | 0     | 76                       |
| Shakhchi   | 0       | 0     | 77                       |
| Whistle    | 0       | 0     | 78                       |
| Ocarina    | 0       | 0     | 79                       |
| SquareLd   | 0       | 0     | 80                       |
| SquarLd2   | 0       | 6     | 80                       |
| LMSquare   | 0       | 8     | 80                       |
| Hollow     | 0       | 18    | 80                       |
| Shroud     | 0       | 19    | 80                       |
| Mellow     | 0       | 64    | 80                       |
| SoloSine   | 0       | 65    | 80                       |
| SineLead   | 0       | 66    | 80                       |
| Saw Lead   | 0       | 0     | 81                       |
| Saw Ld 2   | 0       | 6     | 81                       |
| ThickSaw   | 0       | 8     | 81                       |
| Dyna Saw   | 0       | 18    | 81                       |
| Digi Saw   | 0       | 19    | 81                       |
| Big Lead   | 0       | 20    | 81                       |
| HeavySyn   | 0       | 24    | 81                       |
| WaspySyn   | 0       | 25    | 81                       |
| PulseSaw   | 0       | 40    | 81                       |
| Dr. Lead   | 0       | 41    | 81                       |
| VeloLead   | 0       | 45    | 81                       |
| Seq Ana.   | 0       | 96    | 81                       |
| CaliopLd   | 0       | 0     | 82                       |
| PureLead   | 0       | 65    | 82                       |
| Chiff Ld   | 0       | 0     | 83                       |
| Rubby      | 0       | 64    | 83                       |
| CharanLd   | 0       | 0     | 84                       |
| DistLead   | 0       | 64    | 84                       |
| WireLead   | 0       | 65    | 84                       |
| Voice Ld   | 0       | 0     | 85                       |
| SynthAah   | 0       | 24    | 85                       |
| Vox Lead   | 0       | 64    | 85                       |
| Fifth Ld   | 0       | 0     | 86                       |
| Big Five   | 0       | 35    | 86                       |
| Bass&Ld    | 0       | 0     | 87                       |
| Big&Low    | 0       | 16    | 87                       |
| Fat&Prky   | 0       | 64    | 87                       |
| Soft Wrl   | 0       | 65    | 87                       |
| NewAgePd   | 0       | 0     | 88                       |

| Voice Name | Voice # |       |                             |
|------------|---------|-------|-----------------------------|
|            | MSB #   | LSB # | Program Change #<br>(0-127) |
| Fantasy    | 0       | 64    | 88                          |
| Warm Pad   | 0       | 0     | 89                          |
| ThickPad   | 0       | 16    | 89                          |
| Soft Pad   | 0       | 17    | 89                          |
| Sine Pad   | 0       | 18    | 89                          |
| Horn Pad   | 0       | 64    | 89                          |
| RotarStr   | 0       | 65    | 89                          |
| PolySyPd   | 0       | 0     | 90                          |
| PolyPd80   | 0       | 64    | 90                          |
| ClickPad   | 0       | 65    | 90                          |
| Ana. Pad   | 0       | 66    | 90                          |
| SquarPad   | 0       | 67    | 90                          |
| ChoirPad   | 0       | 0     | 91                          |
| Heaven     | 0       | 64    | 91                          |
| Itopia     | 0       | 66    | 91                          |
| CC Pad     | 0       | 67    | 91                          |
| BowedPad   | 0       | 0     | 92                          |
| Glacier    | 0       | 64    | 92                          |
| GlassPad   | 0       | 65    | 92                          |
| MetalPad   | 0       | 0     | 93                          |
| Tine Pad   | 0       | 64    | 93                          |
| Pan Pad    | 0       | 65    | 93                          |
| Halo Pad   | 0       | 0     | 94                          |
| SweepPad   | 0       | 0     | 95                          |
| Shwimmer   | 0       | 20    | 95                          |
| Converge   | 0       | 27    | 95                          |
| PolarPad   | 0       | 64    | 95                          |
| Celstial   | 0       | 66    | 95                          |
| Rain       | 0       | 0     | 96                          |
| ClaviPad   | 0       | 45    | 96                          |
| HrmoRain   | 0       | 64    | 96                          |
| AfrcnWnd   | 0       | 65    | 96                          |
| Carib      | 0       | 66    | 96                          |
| SoundTrk   | 0       | 0     | 97                          |
| Prologue   | 0       | 27    | 97                          |
| Ancestrl   | 0       | 64    | 97                          |
| Crystal    | 0       | 0     | 98                          |
| SynDrCmp   | 0       | 12    | 98                          |
| Popcorn    | 0       | 14    | 98                          |
| TinyBell   | 0       | 18    | 98                          |
| RndGlock   | 0       | 35    | 98                          |
| GlockChi   | 0       | 40    | 98                          |
| ClearBel   | 0       | 41    | 98                          |
| ChorBell   | 0       | 42    | 98                          |
| SynMalet   | 0       | 64    | 98                          |
| SftCryst   | 0       | 65    | 98                          |
| LoudGlok   | 0       | 66    | 98                          |
| ChrstBel   | 0       | 67    | 98                          |
| VibeBell   | 0       | 68    | 98                          |
| DigiBell   | 0       | 69    | 98                          |
| AirBells   | 0       | 70    | 98                          |
| BellHarp   | 0       | 71    | 98                          |
| Gamelmba   | 0       | 72    | 98                          |
| Atmosphr   | 0       | 0     | 99                          |
| WarmAtms   | 0       | 18    | 99                          |
| HollwRls   | 0       | 19    | 99                          |
| Nylon EP   | 0       | 40    | 99                          |
| NylnHarp   | 0       | 64    | 99                          |
| Harp Vox   | 0       | 65    | 99                          |
| AtmosPad   | 0       | 66    | 99                          |
| Planet     | 0       | 67    | 99                          |

## XG

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| Bright     | 0       | 0     | 100                      |
| FantaBel   | 0       | 64    | 100                      |
| Smokey     | 0       | 96    | 100                      |
| Goblins    | 0       | 0     | 101                      |
| GobSynth   | 0       | 64    | 101                      |
| Creeper    | 0       | 65    | 101                      |
| Ring Pad   | 0       | 66    | 101                      |
| Ritual     | 0       | 67    | 101                      |
| ToHeaven   | 0       | 68    | 101                      |
| Night      | 0       | 70    | 101                      |
| Glisten    | 0       | 71    | 101                      |
| BelChoir   | 0       | 96    | 101                      |
| Echoes     | 0       | 0     | 102                      |
| Echoes 2   | 0       | 8     | 102                      |
| Echo Pan   | 0       | 14    | 102                      |
| EchoBell   | 0       | 64    | 102                      |
| Big Pan    | 0       | 65    | 102                      |
| SynPiano   | 0       | 66    | 102                      |
| Creation   | 0       | 67    | 102                      |
| StarDust   | 0       | 68    | 102                      |
| Reso&Pan   | 0       | 69    | 102                      |
| Sci-Fi     | 0       | 0     | 103                      |
| Starz      | 0       | 64    | 103                      |
| Sitar      | 0       | 0     | 104                      |
| DetSitar   | 0       | 32    | 104                      |
| Sitar 2    | 0       | 35    | 104                      |
| Tambra     | 0       | 96    | 104                      |
| Tamboura   | 0       | 97    | 104                      |
| Banjo      | 0       | 0     | 105                      |
| MuteBnjo   | 0       | 28    | 105                      |
| Rabab      | 0       | 96    | 105                      |
| Gopichnt   | 0       | 97    | 105                      |
| Oud        | 0       | 98    | 105                      |
| Shamisen   | 0       | 0     | 106                      |
| Koto       | 0       | 0     | 107                      |
| Taisho-k   | 0       | 96    | 107                      |
| Kanoon     | 0       | 97    | 107                      |
| Kalimba    | 0       | 0     | 108                      |
| Bagpipe    | 0       | 0     | 109                      |

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| Fiddle     | 0       | 0     | 110                      |
| Shanai     | 0       | 0     | 111                      |
| Shanai 2   | 0       | 64    | 111                      |
| Pungi      | 0       | 96    | 111                      |
| Hichriki   | 0       | 97    | 111                      |
| TnklBell   | 0       | 0     | 112                      |
| Bonang     | 0       | 96    | 112                      |
| Altair     | 0       | 97    | 112                      |
| Gamelan    | 0       | 98    | 112                      |
| S.Gamlan   | 0       | 99    | 112                      |
| Rama Cym   | 0       | 100   | 112                      |
| AsianBel   | 0       | 101   | 112                      |
| Agogo      | 0       | 0     | 113                      |
| SteelDrm   | 0       | 0     | 114                      |
| GlasPerc   | 0       | 97    | 114                      |
| ThaiBell   | 0       | 98    | 114                      |
| WoodBlok   | 0       | 0     | 115                      |
| Castanet   | 0       | 96    | 115                      |
| TaikoDrm   | 0       | 0     | 116                      |
| Gr.Cassa   | 0       | 96    | 116                      |
| MelodTom   | 0       | 0     | 117                      |
| Mel Tom2   | 0       | 64    | 117                      |
| Real Tom   | 0       | 65    | 117                      |
| Rock Tom   | 0       | 66    | 117                      |
| Syn Drum   | 0       | 0     | 118                      |
| Ana Tom    | 0       | 64    | 118                      |
| ElecPerc   | 0       | 65    | 118                      |
| RevCymb1   | 0       | 0     | 119                      |
| FretNoiz   | 0       | 0     | 120                      |
| BrthNoiz   | 0       | 0     | 121                      |
| Seashore   | 0       | 0     | 122                      |
| Tweet      | 0       | 0     | 123                      |
| Telephone  | 0       | 0     | 124                      |
| Helicptr   | 0       | 0     | 125                      |
| Applause   | 0       | 0     | 126                      |
| Gunshot    | 0       | 0     | 127                      |
| CuttngNz   | 64      | 0     | 0                        |
| CttngNz2   | 64      | 0     | 1                        |
| Str Slap   | 64      | 0     | 3                        |

| Voice Name | Voice # |       |                          |
|------------|---------|-------|--------------------------|
|            | MSB #   | LSB # | Program Change # (0-127) |
| Fl.KClik   | 64      | 0     | 16                       |
| Shower     | 64      | 0     | 32                       |
| Thunder    | 64      | 0     | 33                       |
| Wind       | 64      | 0     | 34                       |
| Stream     | 64      | 0     | 35                       |
| Bubble     | 64      | 0     | 36                       |
| Feed       | 64      | 0     | 37                       |
| Dog        | 64      | 0     | 48                       |
| Horse      | 64      | 0     | 49                       |
| Tweet 2    | 64      | 0     | 50                       |
| Ghost      | 64      | 0     | 54                       |
| Maou       | 64      | 0     | 55                       |
| Tel.Dial   | 64      | 0     | 64                       |
| DoorSqek   | 64      | 0     | 65                       |
| DoorSlam   | 64      | 0     | 66                       |
| ScratchC   | 64      | 0     | 67                       |
| ScratchS   | 64      | 0     | 68                       |
| WindChim   | 64      | 0     | 69                       |
| Telphon2   | 64      | 0     | 70                       |
| CarElgnt   | 64      | 0     | 80                       |
| CarTSqel   | 64      | 0     | 81                       |
| Car Pass   | 64      | 0     | 82                       |
| CarCrash   | 64      | 0     | 83                       |
| Siren      | 64      | 0     | 84                       |
| Train      | 64      | 0     | 85                       |
| JetPlane   | 64      | 0     | 86                       |
| Starship   | 64      | 0     | 87                       |
| Burst      | 64      | 0     | 88                       |
| Coaster    | 64      | 0     | 89                       |
| Submarin   | 64      | 0     | 90                       |
| Laugh      | 64      | 0     | 96                       |
| Scream     | 64      | 0     | 97                       |
| Punch      | 64      | 0     | 98                       |
| Heart      | 64      | 0     | 99                       |
| Footstep   | 64      | 0     | 100                      |
| MchinGun   | 64      | 0     | 112                      |
| LaserGun   | 64      | 0     | 113                      |
| Xplosion   | 64      | 0     | 114                      |
| Firework   | 64      | 0     | 115                      |

# Demo Songs / Demo-Songs / Morceaux de démo / Canciones de demostración

## SONG DEMO

|        | Title                                                | Composer    |
|--------|------------------------------------------------------|-------------|
| Song 1 | Andante Spianato and Grand Polonaise Brillante Op.22 | F. Chopin   |
| Song 3 | Beautiful Dreamer                                    | S.C. Foster |
| Song 4 | Annie Laurie                                         | Traditional |

## VOICE DEMO

| Voice Group   | Title            | Composer  |
|---------------|------------------|-----------|
| Piano&Harpsi. | Consolation No.3 | F. Chopin |
|               | Gavotte          | J.S. Bach |

- Some of the demonstration pieces listed above are specially-arranged excerpts from the original compositions listed above. All other songs are original (© 2003 Yamaha Corporation).
- Bei manchen der oben aufgelisteten Demostücke handelt es sich um Auszüge aus den Originalkompositionen mit speziellem Arrangement. Alle anderen Stücke sind eigene Kompositionen (© 2003 Yamaha Corporation).
- Certains des morceaux de démonstration énumérés ci-dessus sont de courts extraits des compositions originales. Tous les autres morceaux sont des créations originales (© 2003 Yamaha Corporation).
- Alguna de las piezas de demostración arriba listadas son exceptos especialmente preparados de las composiciones originales de arriba. Todas las otras canciones son originales (© 2003 Yamaha Corporation.)

# Drum/key Assignment List / Verzeichnis der Liste d'assignation instrument de batterie/ Lista de asignaciones de teclas/batería

| Bank Select MSB        |      |       |         |                  |  | 127            | 127            | 127          | 127          | 127          | 127          | 127          |
|------------------------|------|-------|---------|------------------|--|----------------|----------------|--------------|--------------|--------------|--------------|--------------|
| Bank Select LSB        |      |       |         |                  |  | 0              | 0              | 0            | 0            | 0            | 0            | 0            |
| Program Change (0-127) |      |       |         |                  |  | 0              | 1              | 8            | 16           | 24           | 25           | 27           |
| Keyboard Note          | MIDI |       | Key off | Alternate assign |  | Standard Kit 1 | Standard Kit 2 | Room Kit     | Rock Kit     | Electro Kit  | Analog Kit   | Dance Kit    |
| Note #                 | Note | Note  |         |                  |  |                |                |              |              |              |              |              |
| C# 1                   | 13   | C# -1 |         | 3                |  | Surdo Mute     | Surdo Mute     | Surdo Mute   | Surdo Mute   | Surdo Mute   | Surdo Mute   | Surdo Mute   |
| D 1                    | 14   | D -1  |         | 3                |  | Surdo Open     | Surdo Open     | Surdo Open   | Surdo Open   | Surdo Open   | Surdo Open   | Surdo Open   |
| D# 1                   | 15   | D# -1 |         |                  |  | Hi Q           | Hi Q           | Hi Q         | Hi Q         | Hi Q         | Hi Q         | Hi Q         |
| E 1                    | 16   | E -1  |         |                  |  | Whip Slap      | Whip Slap      | Whip Slap    | Whip Slap    | Whip Slap    | Whip Slap    | Whip Slap    |
| F 1                    | 17   | F -1  |         | 4                |  | Scratch H      | Scratch H      | Scratch H    | Scratch H    | Scratch H    | Scratch H    | Scratch H    |
| F# 1                   | 18   | F# -1 |         | 4                |  | Scratch L      | Scratch L      | Scratch L    | Scratch L    | Scratch L    | Scratch L    | Scratch L    |
| G 1                    | 19   | G -1  |         |                  |  | Finger Snap    | Finger Snap    | Finger Snap  | Finger Snap  | Finger Snap  | Finger Snap  | Finger Snap  |
| G# 1                   | 20   | G# -1 |         |                  |  | Click Noise    | Click Noise    | Click Noise  | Click Noise  | Click Noise  | Click Noise  | Click Noise  |
| A 1                    | 21   | A -1  |         |                  |  | Mtrnm Click    | Mtrnm Click    | Mtrnm Click  | Mtrnm Click  | Mtrnm Click  | Mtrnm Click  | Mtrnm Click  |
| A# 1                   | 22   | A# -1 |         |                  |  | Mtrnm Bell     | Mtrnm Bell     | Mtrnm Bell   | Mtrnm Bell   | Mtrnm Bell   | Mtrnm Bell   | Mtrnm Bell   |
| B 1                    | 23   | B -1  |         |                  |  | Seq Click L    | Seq Click L    | Seq Click L  | Seq Click L  | Seq Click L  | Seq Click L  | Seq Click L  |
| C 2                    | 24   | C 0   |         |                  |  | Seq Click H    | Seq Click H    | Seq Click H  | Seq Click H  | Seq Click H  | Seq Click H  | Seq Click H  |
| C# 2                   | 25   | C# 0  |         |                  |  | Brush Tap      | Brush Tap      | Brush Tap    | Brush Tap    | Brush Tap    | Brush Tap    | Brush Tap    |
| D 2                    | 26   | D 0   | ○       |                  |  | Brush Swirl    | Brush Swirl    | Brush Swirl  | Brush Swirl  | Brush Swirl  | Brush Swirl  | Brush Swirl  |
| D# 2                   | 27   | D# 0  |         |                  |  | Brush Slap     | Brush Slap     | Brush Slap   | Brush Slap   | Brush Slap   | Brush Slap   | Brush Slap   |
| E 2                    | 28   | E 0   | ○       |                  |  | BrushTapSwrl   | BrushTapSwrl   | BrushTapSwrl | BrushTapSwrl | ReversCymbal | ReversCymbal | ReversCymbal |
| F 2                    | 29   | F 0   | ○       |                  |  | Snare Roll     | Snare Roll 2   | Snare Roll   | Snare Roll   | Snare Roll   | Snare Roll   | Snare Roll   |
| F# 2                   | 30   | F# 0  |         |                  |  | Castanet       | Castanet       | Castanet     | Castanet     | Hi Q 2       | Hi Q 2       | Hi Q 2       |
| G 2                    | 31   | G 0   |         |                  |  | Snare Soft     | Snare Soft 2   | Snare Soft   | Snare Noisy  | SnrSnpElctr  | SnareNoisy 4 | SnareTechno3 |
| G# 2                   | 32   | G# 0  |         |                  |  | Sticks         | Sticks         | Sticks       | Sticks       | Sticks       | Sticks       | Sticks       |
| A 2                    | 33   | A 0   |         |                  |  | Kick Soft      | Kick Soft      | Kick Soft    | Kick Tight 2 | Kick 3       | Kick Tight 2 | KickTechno Q |
| A# 2                   | 34   | A# 0  |         |                  |  | OpenRimShot    | RimShotHShrt   | OpenRimShot  | OpenRimShot  | OpenRimShot  | OpenRimShot  | Rim Gate     |
| B 2                    | 35   | B 0   |         |                  |  | Kick Tight     | KickTghtShrt   | Kick Tight   | Kick 2       | Kick Gate    | KickAnlgShrt | KickTechno L |
| C 3                    | 36   | C 1   |         |                  |  | Kick           | Kick Short     | Kick         | Kick Gate    | KckGateHeavy | Kick Analog  | KickTechno 2 |
| C# 3                   | 37   | C# 1  |         |                  |  | Side Stick     | Side Stick     | Side Stick   | Side Stick   | Side Stick   | SideStickAn  | SideStickAn  |
| D 3                    | 38   | D 1   |         |                  |  | Snare          | Snare Short    | Snare Snappy | Snare Rock   | SnareNoisy 2 | SnareAnalog  | Snare Clap   |
| D# 3                   | 39   | D# 1  |         |                  |  | Hand Clap      | Hand Clap      | Hand Clap    | Hand Clap    | Hand Clap    | Hand Clap    | Hand Clap    |
| E 3                    | 40   | E 1   |         |                  |  | Snare Tight    | SnareTight H   | SnrTightSnp  | SnareRockRim | SnareNoisy 3 | SnareAnalog2 | Snare Dry 2  |
| F 3                    | 41   | F 1   |         |                  |  | Floor Tom L    | Floor Tom L    | Tom Room 1   | Tom Rock 1   | TomElectro 1 | Tom Analog 1 | Tom Analog 1 |
| F# 3                   | 42   | F# 1  |         | 1                |  | Hi-HatClosed   | Hi-HatClosed   | Hi-HatClosed | Hi-HatClosed | Hi-HatClosed | HatCloseAnlg | HiHatClose 3 |
| G 3                    | 43   | G 1   |         |                  |  | Floor Tom H    | Floor Tom H    | Tom Room 2   | Tom Rock 2   | TomElectro 2 | Tom Analog 2 | Tom Analog 2 |
| G# 3                   | 44   | G# 1  |         | 1                |  | Hi-Hat Pedal   | Hi-Hat Pedal   | Hi-Hat Pedal | Hi-Hat Pedal | HatCloseAn 2 | HatCloseAn 2 | HatCloseAn 2 |
| A 3                    | 45   | A 1   |         |                  |  | Low Tom        | Low Tom        | Tom Room 3   | Tom Rock 3   | TomElectro 3 | Tom Analog 3 | Tom Analog 3 |
| A# 3                   | 46   | A# 1  |         | 1                |  | Hi-Hat Open    | Hi-Hat Open    | Hi-Hat Open  | Hi-Hat Open  | Hi-Hat Open  | HatOpen Anlg | HiHat Open 3 |
| B 3                    | 47   | B 1   |         |                  |  | Mid Tom L      | Mid Tom L      | Tom Room 4   | Tom Rock 4   | TomElectro 4 | Tom Analog 4 | Tom Analog 4 |
| C 4                    | 48   | C 2   |         |                  |  | Mid Tom H      | Mid Tom H      | Tom Room 5   | Tom Rock 5   | TomElectro 5 | Tom Analog 5 | Tom Analog 5 |
| C# 4                   | 49   | C# 2  |         |                  |  | CrashCymbal1   | CrashCymbal1   | CrashCymbal1 | CrashCymbal1 | CrashCymbal1 | Crash Analog | Crash Analog |
| D 4                    | 50   | D 2   |         |                  |  | High Tom       | High Tom       | Tom Room 6   | Tom Rock 6   | TomElectro 6 | Tom Analog 6 | Tom Analog 6 |
| D# 4                   | 51   | D# 2  |         |                  |  | RideCymbal 1   | RideCymbal 1   | RideCymbal 1 | RideCymbal 1 | RideCymbal 1 | RideCymbal 1 | RideCymbal 1 |
| E 4                    | 52   | E 2   |         |                  |  | Chinese Cym    | Chinese Cym    | Chinese Cym  | Chinese Cym  | Chinese Cym  | Chinese Cym  | Chinese Cym  |
| F 4                    | 53   | F 2   |         |                  |  | Ride Cym Cup   | Ride Cym Cup   | Ride Cym Cup | Ride Cym Cup | Ride Cym Cup | Ride Cym Cup | Ride Cym Cup |
| F# 4                   | 54   | F# 2  |         |                  |  | Tambourine     | Tambourine     | Tambourine   | Tambourine   | Tambourine   | Tambourine   | Tambourine   |
| G 4                    | 55   | G 2   |         |                  |  | SplashCymbal   | SplashCymbal   | SplashCymbal | SplashCymbal | SplashCymbal | SplashCymbal | SplashCymbal |
| G# 4                   | 56   | G# 2  |         |                  |  | Cowbell        | Cowbell        | Cowbell      | Cowbell      | Cowbell      | Cowbell Anlg | Cowbell Anlg |
| A 4                    | 57   | A 2   |         |                  |  | CrashCymbal2   | CrashCymbal2   | CrashCymbal2 | CrashCymbal2 | CrashCymbal2 | CrashCymbal2 | CrashCymbal2 |
| A# 4                   | 58   | A# 2  |         |                  |  | Vibraslap      | Vibraslap      | Vibraslap    | Vibraslap    | Vibraslap    | Vibraslap    | Vibraslap    |
| B 4                    | 59   | B 2   |         |                  |  | RideCymbal 2   | RideCymbal 2   | RideCymbal 2 | RideCymbal 2 | RideCymbal 2 | RideCymbal 2 | RideCymbal 2 |
| C 5                    | 60   | C 3   |         |                  |  | Bongo H        | Bongo H        | Bongo H      | Bongo H      | Bongo H      | Bongo H      | Bongo H      |
| C# 5                   | 61   | C# 3  |         |                  |  | Bongo L        | Bongo L        | Bongo L      | Bongo L      | Bongo L      | Bongo L      | Bongo L      |
| D 5                    | 62   | D 3   |         |                  |  | Conga H Mute   | Conga H Mute   | Conga H Mute | Conga H Mute | Conga H Mute | Conga Anlg H | Conga Anlg H |
| D# 5                   | 63   | D# 3  |         |                  |  | Conga H Open   | Conga H Open   | Conga H Open | Conga H Open | Conga H Open | Conga Anlg M | Conga Anlg M |
| E 5                    | 64   | E 3   |         |                  |  | Conga L        | Conga L        | Conga L      | Conga L      | Conga L      | Conga Anlg L | Conga Anlg L |
| F 5                    | 65   | F 3   |         |                  |  | Timbale H      | Timbale H      | Timbale H    | Timbale H    | Timbale H    | Timbale H    | Timbale H    |
| F# 5                   | 66   | F# 3  |         |                  |  | Timbale L      | Timbale L      | Timbale L    | Timbale L    | Timbale L    | Timbale L    | Timbale L    |
| G 5                    | 67   | G 3   |         |                  |  | Agogo H        | Agogo H        | Agogo H      | Agogo H      | Agogo H      | Agogo H      | Agogo H      |
| G# 5                   | 68   | G# 3  |         |                  |  | Agogo L        | Agogo L        | Agogo L      | Agogo L      | Agogo L      | Agogo L      | Agogo L      |
| A 5                    | 69   | A 3   |         |                  |  | Cabasa         | Cabasa         | Cabasa       | Cabasa       | Cabasa       | Cabasa       | Cabasa       |
| A# 5                   | 70   | A# 3  |         |                  |  | Maracas        | Maracas        | Maracas      | Maracas      | Maracas      | Maracas 2    | Maracas 2    |
| B 5                    | 71   | B 3   | ○       |                  |  | SambaWhistlH   | SambaWhistlH   | SambaWhistlH | SambaWhistlH | SambaWhistlH | SambaWhistlH | SambaWhistlH |
| C 6                    | 72   | C 4   | ○       |                  |  | SambaWhistlL   | SambaWhistlL   | SambaWhistlL | SambaWhistlL | SambaWhistlL | SambaWhistlL | SambaWhistlL |
| C# 6                   | 73   | C# 4  |         |                  |  | Guio Short     | Guio Short     | Guio Short   | Guio Short   | Guio Short   | Guio Short   | Guio Short   |
| D 6                    | 74   | D 4   | ○       |                  |  | Guio Long      | Guio Long      | Guio Long    | Guio Long    | Guio Long    | Guio Long    | Guio Long    |
| D# 6                   | 75   | D# 4  |         |                  |  | Claves         | Claves         | Claves       | Claves       | Claves       | Claves 2     | Claves 2     |
| E 6                    | 76   | E 4   |         |                  |  | Wood Block H   | Wood Block H   | Wood Block H | Wood Block H | Wood Block H | Wood Block H | Wood Block H |
| F 6                    | 77   | F 4   |         |                  |  | Wood Block L   | Wood Block L   | Wood Block L | Wood Block L | Wood Block L | Wood Block L | Wood Block L |
| F# 6                   | 78   | F# 4  |         |                  |  | Cuica Mute     | Cuica Mute     | Cuica Mute   | Cuica Mute   | Scratch H 2  | Scratch H 2  | Scratch H 2  |
| G 6                    | 79   | G 4   |         |                  |  | Cuica Open     | Cuica Open     | Cuica Open   | Cuica Open   | Scratch L 2  | Scratch L 3  | Scratch L 3  |
| G# 6                   | 80   | G# 4  |         | 2                |  | TriangleMute   | TriangleMute   | TriangleMute | TriangleMute | TriangleMute | TriangleMute | TriangleMute |
| A 6                    | 81   | A 4   |         | 2                |  | TriangleOpen   | TriangleOpen   | TriangleOpen | TriangleOpen | TriangleOpen | TriangleOpen | TriangleOpen |
| A# 6                   | 82   | A# 4  |         |                  |  | Shaker         | Shaker         | Shaker       | Shaker       | Shaker       | Shaker       | Shaker       |
| B 6                    | 83   | B 4   |         |                  |  | Jingle Bells   | Jingle Bells   | Jingle Bells | Jingle Bells | Jingle Bells | Jingle Bells | Jingle Bells |
| C 7                    | 84   | C 5   |         |                  |  | Bell Tree      | Bell Tree      | Bell Tree    | Bell Tree    | Bell Tree    | Bell Tree    | Bell Tree    |
| -                      | 85   | C# 5  |         |                  |  |                |                |              |              |              |              |              |
| -                      | 86   | D 5   |         |                  |  |                |                |              |              |              |              |              |
| -                      | 87   | D# 5  |         |                  |  |                |                |              |              |              |              |              |
| -                      | 88   | E 5   |         |                  |  |                |                |              |              |              |              |              |
| -                      | 89   | F 5   |         |                  |  |                |                |              |              |              |              |              |
| -                      | 90   | F# 5  |         |                  |  |                |                |              |              |              |              |              |
| -                      | 91   | G 5   |         |                  |  |                |                |              |              |              |              |              |

- Key Off: Keys marked "○" stop sounding the instant they are released.
- Alternate Assign: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

- Key Off: Durch "○" gekennzeichnete Klänge verstummen beim Loslassen der Taste.
- Alternate Assign: Mit derselben Nummer gekennzeichnete Klänge werden von demselben Instrument erzeugt und können daher nicht gleichzeitig produziert werden. Spielt einer dieser Klänge gerade, wird er beim Anschlagen einer anderen Taste mit derselben "Alternate Assign"-Nummer stummgeschaltet.

# Schlagzeugklänge / touche du clavier / .....

| Bank Select MSB        |        |      |         |                  | 127      | 127          | 127          | 127           | 127           | 126          | 126         |
|------------------------|--------|------|---------|------------------|----------|--------------|--------------|---------------|---------------|--------------|-------------|
| Bank Select LSB        |        |      |         |                  | 0        | 0            | 0            | 0             | 0             | 0            | 0           |
| Program Change (0-127) |        |      |         |                  | 32       | 40           | 48           | 80            | 82            | 0            | 1           |
| Keyboard Note          | MIDI   |      | Key off | Alternate assign | Jazz Kit | Brush Kit    | Symphony Kit | Sty Std.Kit   | Sty BrushKit  | SFX Kit 1    | SFX Kit 2   |
|                        | Note # | Note |         |                  |          |              |              |               |               |              |             |
| C#                     | 1      | 13   | C# -1   |                  | 3        | Surdo Mute   | Surdo Mute   | Surdo Mute    | Surdo Mute    | Surdo Mute   |             |
| D                      | 1      | 14   | D -1    |                  | 3        | Surdo Open   | Surdo Open   | Surdo Open    | Surdo Open    | Surdo Open   |             |
| D#                     | 1      | 15   | D# -1   |                  |          | Hi Q         | Hi Q         | Hi Q          | Hi Q          |              |             |
| E                      | 1      | 16   | E -1    |                  |          | Whip Slap    | Whip Slap    | Whip Slap     | Whip Slap     |              |             |
| F                      | 1      | 17   | F -1    |                  | 4        | Scratch H    | Scratch H    | Scratch H     | Scratch H     |              |             |
| F#                     | 1      | 18   | F# -1   |                  | 4        | Scratch L    | Scratch L    | Scratch L     | Scratch L     |              |             |
| G                      | 1      | 19   | G -1    |                  |          | Finger Snap  | Finger Snap  | Finger Snap   | Finger Snap   |              |             |
| G#                     | 1      | 20   | G# -1   |                  |          | Click Noise  | Click Noise  | Click Noise   | Click Noise   |              |             |
| A                      | 1      | 21   | A -1    |                  |          | Mtrnm Click  | Mtrnm Click  | Mtrnm Click   | Mtrnm Click   |              |             |
| A#                     | 1      | 22   | A# -1   |                  |          | Mtrnm Bell   | Mtrnm Bell   | Mtrnm Bell    | Mtrnm Bell    |              |             |
| B                      | 1      | 23   | B -1    |                  |          | Seq Click L  | Seq Click L  | Seq Click L   | Seq Click L   |              |             |
| C                      | 2      | 24   | C 0     |                  |          | Seq Click H  | Seq Click H  | Seq Click H   | Seq Click H   |              |             |
| C#                     | 2      | 25   | C# 0    |                  |          | Brush Tap    | Brush Tap    | BrshTpStyStd  | BrshTpStyStd  |              |             |
| D                      | 2      | 26   | D 0     | ○                |          | Brush Swirl  | Brush Swirl  | BrshSwStyStd  | BrshSwStyStd  |              |             |
| D#                     | 2      | 27   | D# 0    |                  |          | Brush Slap   | Brush Slap   | BrshSlStyStd  | BrshSlStyStd  |              |             |
| E                      | 2      | 28   | E 0     | ○                |          | BrushTapSwrl | BrushTapSwrl | BrshTSSStyStd | BrshTSSStyStd |              |             |
| F                      | 2      | 29   | F 0     | ○                |          | Snare Roll   | Snare Roll   | Snare Roll    | Snare Roll    |              |             |
| F#                     | 2      | 30   | F# 0    |                  |          | Castanet     | Castanet     | Castanet      | Castanet      |              |             |
| G                      | 2      | 31   | G 0     |                  |          | Snare Soft   | Brush Slap 2 | SnrSftStyStd  | SnrSftStyStd  |              |             |
| G#                     | 2      | 32   | G# 0    |                  |          | Sticks       | Sticks       | Sticks        | Sticks        |              |             |
| A                      | 2      | 33   | A 0     |                  |          | Kick Soft    | Kick Soft    | KckSftStyStd  | KckSftStyStd  |              |             |
| A#                     | 2      | 34   | A# 0    |                  |          | OpenRimShot  | OpenRimShot  | RimShtStyStd  | RimShtStyStd  |              |             |
| B                      | 2      | 35   | B 0     |                  |          | Kick Tight   | Kick Tight   | KickT StyStd  | KickT StyStd  |              |             |
| C                      | 3      | 36   | C 1     |                  |          | Kick Jazz    | Kick Small   | GranCassa Mu  | Kick StyStd   | CuttingNoiz  | Phone Call  |
| C#                     | 3      | 37   | C# 1    |                  |          | Side Stick   | Side Stick   | S StokStyStd  | S StokStyStd  | CuttingNoiz2 | Door Squeak |
| D                      | 3      | 38   | D 1     |                  |          | Snare        | Brush Slap 3 | Snare StyStd  | Snare StBrsh  |              | Door Slam   |
| D#                     | 3      | 39   | D# 1    |                  |          | Hand Clap    | Hand Clap    | Hand Clap     | Hand Clap     | String Slap  | Scratch Cut |
| E                      | 3      | 40   | E 1     |                  |          | Snare Tight  | Brush Tap 2  | Snr T StyStd  | Snr T StBrsh  |              | Scratch H 3 |
| F                      | 3      | 41   | F 1     |                  |          | Tom Jazz 1   | Tom Brush 1  | FirTmLStyStd  | FirTmLStyStd  |              | Wind Chime  |
| F#                     | 3      | 42   | F# 1    |                  | 1        | Hi-HatClosed | Hi-HatClosed | HHCis StyStd  | HHCis StBrsh  |              | Telephone 2 |
| G                      | 3      | 43   | G 1     |                  |          | Tom Jazz 2   | Tom Brush 2  | FirTmHStyStd  | FirTmHStyStd  |              |             |
| G#                     | 3      | 44   | G# 1    |                  | 1        | Hi-Hat Pedal | Hi-Hat Pedal | HHPdl StyStd  | HHPdl StBrsh  |              |             |
| A                      | 3      | 45   | A 1     |                  |          | Tom Jazz 3   | Tom Brush 3  | LoTmStyStd    | LoTmStBrsh    |              |             |
| A#                     | 3      | 46   | A# 1    |                  | 1        | Hi-Hat Open  | Hi-Hat Open  | HHOpn StyStd  | HHOpn StBrsh  |              |             |
| B                      | 3      | 47   | B 1     |                  |          | Tom Jazz 4   | Tom Brush 4  | MidTmLStyStd  | MidTmLStyStd  |              |             |
| C                      | 4      | 48   | C 2     |                  |          | Tom Jazz 5   | Tom Brush 5  | MidTmHStyStd  | MidTmHStyStd  |              |             |
| C#                     | 4      | 49   | C# 2    |                  |          | CrashCymbal1 | CrashCymbal1 | Crash1StyStd  | Crash1StyStd  |              |             |
| D                      | 4      | 50   | D 2     |                  |          | Tom Jazz 6   | Tom Brush 6  | HiTom StyStd  | HiTom StBrsh  |              |             |
| D#                     | 4      | 51   | D# 2    |                  |          | RideCymbal 1 | RideCymbal 1 | Ride1 StyStd  | Ride1 StBrsh  |              |             |
| E                      | 4      | 52   | E 2     |                  |          | Chinese Cym  | Chinese Cym  | ChiCymStyStd  | ChiCymStBrsh  | Fl.Key Click | Ignition    |
| F                      | 4      | 53   | F 2     |                  |          | Ride Cym Cup | Ride Cym Cup | R Cup StyStd  | R Cup StBrsh  |              | Squeal      |
| F#                     | 4      | 54   | F# 2    |                  |          | Tambourine   | Tambourine   | Tambourine    | Tambourine    |              | Exhaust     |
| G                      | 4      | 55   | G 2     |                  |          | SplashCymbal | SplashCymbal | SplashStyStd  | SplashStyStd  |              | Crash       |
| G#                     | 4      | 56   | G# 2    |                  |          | Cowbell      | Cowbell      | Cowbell       | Cowbell       |              | Siren       |
| A                      | 4      | 57   | A 2     |                  |          | CrashCymbal2 | CrashCymbal2 | Crash2StyStd  | Crash2StyStd  |              | Train       |
| A#                     | 4      | 58   | A# 2    |                  |          | Vibraslap    | Vibraslap    | Vibraslap     | Vibraslap     |              | Jet Plane   |
| B                      | 4      | 59   | B 2     |                  |          | RideCymbal 2 | RideCymbal 2 | Ride 2StyStd  | Ride 2StBrsh  |              | Starship    |
| C                      | 5      | 60   | C 3     |                  |          | Bongo H      | Bongo H      | Bongo H       | Bongo H       |              | Burst       |
| C#                     | 5      | 61   | C# 3    |                  |          | Bongo L      | Bongo L      | Bongo L       | Bongo L       |              | Coaster     |
| D                      | 5      | 62   | D 3     |                  |          | Conga H Mute | Conga H Mute | Conga H Mute  | Conga H Mute  |              | Submarine   |
| D#                     | 5      | 63   | D# 3    |                  |          | Conga H Open | Conga H Open | Conga H Open  | Conga H Open  |              |             |
| E                      | 5      | 64   | E 3     |                  |          | Conga L      | Conga L      | Conga L       | Conga L       |              |             |
| F                      | 5      | 65   | F 3     |                  |          | Timbale H    | Timbale H    | Timbale H     | Timbale H     |              |             |
| F#                     | 5      | 66   | F# 3    |                  |          | Timbale L    | Timbale L    | Timbale L     | Timbale L     |              |             |
| G                      | 5      | 67   | G 3     |                  |          | Agogo H      | Agogo H      | Agogo H       | Agogo H       |              |             |
| G#                     | 5      | 68   | G# 3    |                  |          | Agogo L      | Agogo L      | Agogo L       | Agogo L       | Shower       | Laugh       |
| A                      | 5      | 69   | A 3     |                  |          | Cabasa       | Cabasa       | Cabasa        | Cabasa        | Thunder      | Scream      |
| A#                     | 5      | 70   | A# 3    |                  |          | Maracas      | Maracas      | Maracas       | Maracas       | Wind         | Punch       |
| B                      | 5      | 71   | B 3     | ○                |          | SambaWhistlH | SambaWhistlH | SambaWhistlH  | SambaWhistlH  | Stream       | Heartbeat   |
| C                      | 6      | 72   | C 4     | ○                |          | SambaWhistlL | SambaWhistlL | SambaWhistlL  | SambaWhistlL  | Bubble       | Footsteps   |
| C#                     | 6      | 73   | C# 4    |                  |          | Guiro Short  | Guiro Short  | Guiro Short   | Guiro Short   | Feed         |             |
| D                      | 6      | 74   | D 4     | ○                |          | Guiro Long   | Guiro Long   | Guiro Long    | Guiro Long    |              |             |
| D#                     | 6      | 75   | D# 4    |                  |          | Claves       | Claves       | Claves        | Claves        |              |             |
| E                      | 6      | 76   | E 4     |                  |          | Wood Block H | Wood Block H | Wood Block H  | Wood Block H  |              |             |
| F                      | 6      | 77   | F 4     |                  |          | Wood Block L | Wood Block L | Wood Block L  | Wood Block L  |              |             |
| F#                     | 6      | 78   | F# 4    |                  |          | Cuica Mute   | Cuica Mute   | Cuica Mute    | Cuica Mute    |              |             |
| G                      | 6      | 79   | G 4     |                  |          | Cuica Open   | Cuica Open   | Cuica Open    | Cuica Open    |              |             |
| G#                     | 6      | 80   | G# 4    |                  | 2        | TriangleMute | TriangleMute | TriangleMute  | TriangleMute  |              |             |
| A                      | 6      | 81   | A 4     |                  | 2        | TriangleOpen | TriangleOpen | TriangleOpen  | TriangleOpen  |              |             |
| A#                     | 6      | 82   | A# 4    |                  |          | Shaker       | Shaker       | Shaker        | Shaker        |              |             |
| B                      | 6      | 83   | B 4     |                  |          | Jingle Bells | Jingle Bells | Jingle Bells  | Jingle Bells  |              |             |
| C                      | 7      | 84   | C 5     |                  |          | Bell Tree    | Bell Tree    | Bell Tree     | Bell Tree     | Dog          | Machine Gun |
| -                      |        | 85   | C# 5    |                  |          |              |              |               |               | Horse        | Laser Gun   |
| -                      |        | 86   | D 5     |                  |          |              |              |               |               | Bird Tweet 2 | Explosion   |
| -                      |        | 87   | D# 5    |                  |          |              |              |               |               |              | Firework    |
| -                      |        | 88   | E 5     |                  |          |              |              |               |               |              |             |
| -                      |        | 89   | F 5     |                  |          |              |              |               |               |              |             |
| -                      |        | 90   | F# 5    |                  |          |              |              |               |               | Ghost        |             |
| -                      |        | 91   | G 5     |                  |          |              |              |               |               | Maou         |             |

- **Key off** : Le son produit par les touches marquées "○" cesse à l'instant où la touche est relâchée.
- **Alternate Assign** : Le fait de jouer un instrument appartenant à un groupe ayant un numéro arrête immédiatement le son de tout autre instrument appartenant à un groupe ayant le même numéro.
- **Key Off**: Las teclas marcadas con "○" dejan de sonar en el momento en que se sueltan.
- **Alternate Assign**: Al tocar algún instrumento con un grupo numerado detendrá inmediatamente el sonido de cualquier otro instrumento del mismo grupo con el mismo número.

# Style List / Style-Verzeichnis / Liste des styles / Lista de estilos

.....

| Style Group | Style Name    | Style Group    | Style Name   | Style Group     | Style Name   | Style Group | Style Name   |
|-------------|---------------|----------------|--------------|-----------------|--------------|-------------|--------------|
| POP&ROCK    | 60'sGtrPop    | SWING&<br>JAZZ | BigBandFast1 | LATIN           | Brazil Samba | PIANIST     | Stride1      |
|             | 60's8Beat     |                | BigBandMed1  |                 | BossaNova    |             | Stride2      |
|             | 8Beat1        |                | 40'sBigBand  |                 | PopBossa     |             | PianoSwing1  |
|             | OffBeat       |                | BigBandFast2 |                 | BigBandMambo |             | PianoSwing2  |
|             | 60'sRock      |                | BigBandMed2  |                 | BigBandSalsa |             | PianoSwing3  |
|             | RockShuffle   |                | BigBandBalad |                 | Tijuana      |             | PianoRag1    |
|             | 8BeatRock     |                | BigBandShufl |                 | DiscoLatin   |             | PianoRag2    |
|             | PopShuffle1   |                | JazzClub     |                 | RockChaCha   |             | Arpeggio1    |
|             | PopShuffle2   |                | Swing1       |                 | Beguine      |             | Arpeggio2    |
|             | GuitarPop     |                | Swing2       |                 | Mambo        |             | Arpeggio3    |
|             | 16BtUptempo   |                | Five/Four    |                 | Salsa        |             | PianoOrchBld |
|             | KoolShuffle   |                | JazzPiano    |                 | GypsyRumba   |             | Musical      |
|             | JazzRock      |                | Bebop        |                 | HappyReggae  |             | Traditional1 |
| POPBALLADS  | 8BeatModern   |                | JazzBallad1  | MARCH&<br>WORLD | USMarch      |             | Traditional2 |
|             | MovieBallad   |                | GypsySwing   |                 | 6/8March     |             | Traditional3 |
|             | SecretService |                | ElectricJazz |                 | GermanMarch  |             | PianoBoogie  |
|             | OrganBallad   |                | Charleston   |                 | Showtune     |             | PnoRock&Roll |
|             | Unplugged     |                | Dixieland    |                 | PolkaPop     |             | SlowRock     |
|             | 8BeatAdria    |                | Ragtime      |                 | OberPolka    |             | 2BeatSwing   |
|             | PianoBallad   | R&B            | Soul         |                 | ScottishReel |             | JazzBallad2  |
|             | RomanticBld   |                | DetroitPop   |                 | Hawaiian     |             | 8Beat2       |
|             | LoveSong      |                | 60'sRock&Rol |                 | Tarantella   |             | 8BeatBallad1 |
|             | 6/8ModernEP   |                | SwingBoogie  |                 | HullyGully   |             | 8BeatBallad2 |
|             | 6/8SlowRock1  |                | Gospel Bros  |                 | Enka         |             | 4Stroke      |
|             | 6/8SlowRock2  |                | 6/8Soul      |                 | PopEnka      |             | Nocturne     |
|             | 16Beat        |                | CrocoTwist   |                 | X'masWaltz   |             | PianoMarch1  |
|             | PopBallad     |                | Rock&Roll    |                 | X'masSwing   |             | PianoMarch2  |
|             | 16BeatBalad1  |                | SoulBeat     | WALTZ           | Gtr Serenade |             | 6/8PnoMarch  |
|             | 16BeatBalad2  |                | SoulShuffle  |                 | SwingWaltz   |             | Waltz        |
|             | RockBallad    |                | 6/8Blues     |                 | JazzWaltz1   |             | JazzWaltz3   |
| DANCE       | EuroTrance    |                | BluesPiano   |                 | JazzWaltz2   |             | PianoBossa   |
|             | Ibiza         |                | Amaz. Gospel |                 | OberWalzer   |             | PianoSamba   |
|             | HouseMusik    |                | ComboBoogie  |                 | Musette      |             | PianoChaCha  |
|             | SwingHouse    | COUNTRY        | Country8Beat | BALLROOM        | VienneseWitz |             | PianoBeguine |
|             | Clubdance     |                | CountryPop   |                 | EnglishWaltz |             | PianoRumba   |
|             | ClubLatin     |                | CountryRock  |                 | Slowfox      |             | SlowWaltz    |
|             | Garage        |                | CountrySwing |                 | Foxtrot      |             |              |
|             | TechnoParty   |                | CountryWaltz |                 | Quickstep    |             |              |
|             | UKPop         |                | CntryBallad  |                 | Tango        |             |              |
|             | HipHopGroove  |                | Country2/4   |                 | Pasodoble    |             |              |
|             | HipHopLight   |                | CowboyBoogie |                 | Samba        |             |              |
|             | HipHopPop     |                | CntryShuffle |                 | ChaChaCha    |             |              |
|             | 70'sDisco1    |                | Hoedown      |                 | Rumba        |             |              |
|             | 70'sDisco2    |                |              |                 | Jive         |             |              |
|             | LatinDisco    |                |              |                 |              |             |              |
|             | SaturdyNight  |                |              |                 |              |             |              |
|             | DiscoHands    |                |              |                 |              |             |              |

# Parameter Chart / Parameterübersicht / Tableau des paramètres / Gráfica de parámetros

| Group         | Contents                                                                         | Default                                     | One Touch Setting | Music Database | Set Up Memory | Registration Freeze Group | All Set Up | Backup Group      | Recall Group  |
|---------------|----------------------------------------------------------------------------------|---------------------------------------------|-------------------|----------------|---------------|---------------------------|------------|-------------------|---------------|
| VOICE         | RIGHT1 VOICE                                                                     | Grand Piano 1                               | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT1 OCTAVE SHIFT                                                              | 0                                           | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT1 PAN                                                                       | Center                                      | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT1 VOLUME                                                                    | 127                                         | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | Selected voice in each VOICE SELECT page                                         | Top voice                                   | —                 | —              | —             | —                         | ○          | VOICE SETTING     | VOICE SETTING |
|               | HARMONY ON/OFF                                                                   | OFF                                         | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | HARMONY TYPE                                                                     | Depends on voice selection.                 | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | HARMONY VOLUME                                                                   | Depends on voice selection.                 | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | HARMONY SPEED                                                                    | Depends on voice selection.                 | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | DUAL ON/OFF                                                                      | OFF                                         | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
| DUAL          | RIGHT2 VOICE                                                                     | SlowStrs.                                   | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT2 OCTAVE SHIFT                                                              | 0                                           | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | DUAL DETUNE DEPTH                                                                | 5                                           | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT2 PAN                                                                       | Center                                      | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | RIGHT2 VOLUME                                                                    | 127                                         | ○                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
| SPLIT         | SPLIT ON/OFF                                                                     | OFF                                         | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | LEFT VOICE                                                                       | Aco Bass                                    | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | LEFT OCTAVE SHIFT                                                                | +1                                          | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | SPLIT POINT                                                                      | F#2                                         | —                 | —              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | LEFT PAN                                                                         | Center                                      | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | LEFT VOLUME                                                                      | 127                                         | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | PEDAL RANGE                                                                      | RIGHT                                       | —                 | —              | ○             | PEDAL                     | ○          | PEDAL             | PEDAL         |
| REVERB        | REVERB ON/OFF                                                                    | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | REVERB TYPE                                                                      | Depends on style (voice) selection.         | —                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | REVERB TOTAL DEPTH                                                               | 64                                          | —                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | REVERB PART DEPTH (RHYTHM, ACMP)                                                 | 64                                          | —                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | REVERB PART DEPTH (LEFT, RIGHT1, RIGHT2)                                         | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
| EFFECT        | EFFECT ON/OFF                                                                    | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | EFFECT TYPE (RIGHT1, RIGHT2, LEFT)                                               | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | EFFECT DEPTH                                                                     | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | EFFECT VARIATION                                                                 | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
| CHORUS        | CHORUS TYPE                                                                      | Depends on style selection.                 | —                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
|               | CHORUS DEPTH (RIGHT1, RIGHT2, LEFT)                                              | Depends on voice selection.                 | ○                 | ○              | ○             | REV/CHO/EFF               | ○          | REV/CHO/EFF       | REV/CHO/EFF   |
| REGISTRATION  | REGISTRATION FREEZE ON/OFF                                                       | OFF                                         | —                 | —              | —             | —                         | —          | REGISTRATION      | REGISTRATION  |
|               | FREEZE CATEGORY ON/OFF (VOICE SETTING), REVERB/EFFECT, TUNE, PEDAL, ACMP.SETTING | ACMP. SETTING: ON<br>Others: OFF            | —                 | —              | —             | —                         | —          | REGISTRATION      | REGISTRATION  |
| MIXER         | ALL REGISTRATION Memory Data (20)                                                | Factory preset data                         | —                 | —              | —             | —                         | ○          | REGISTRATION      | REGISTRATION  |
|               | MIXER PART VOLUME (RHYTHM, BASS, CHORD, PAD, PHRASE)                             | 110                                         | —                 | ○              | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
| ACCOMPANIMENT | KEYBOARD VOLUME                                                                  | 127                                         | —                 | ○              | ○             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | STYLE                                                                            | 60'sGtrPop                                  | —                 | ○              | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
|               | Selected style in each STYLE SELECT page                                         | Top style                                   | —                 | —              | —             | —                         | ○          | ACMP SETTING      | ACMP SETTING  |
|               | MAIN A/B/C/D                                                                     | MAIN C                                      | —                 | ○              | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
|               | ACMP. ON/OFF                                                                     | OFF                                         | ON                | ON             | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
|               | ACCOMPANIMENT MODE                                                               | MULTI FINGER                                | —                 | —              | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
|               | TEMPO <sup>1</sup>                                                               | Depends on style selection.                 | —                 | ○              | —             | ACMP. SETTING             | ○          | ACMP SETTING      | ACMP SETTING  |
| METRONOME     | INTRO/FILL IN/ENDING                                                             | OFF                                         | —                 | —              | —             | ACMP. SETTING             | ○          | —                 | —             |
|               | METRONOME TYPE                                                                   | NORMAL                                      | —                 | —              | —             | —                         | ○          | ACMP SETTING      | ACMP SETTING  |
| SONG          | METRONOME VOLUME                                                                 | 64                                          | —                 | —              | —             | —                         | ○          | ACMP SETTING      | ACMP SETTING  |
|               | GUIDE MODE                                                                       | NORMAL                                      | —                 | —              | —             | —                         | —          | —                 | —             |
|               | SOUND REPEAT                                                                     | AUTO                                        | —                 | —              | —             | —                         | ○          | SONG SETTING      | SONG SETTING  |
|               | PIANO ROLL DISPLAY                                                               | AUTO                                        | —                 | —              | —             | —                         | ○          | SONG SETTING      | SONG SETTING  |
|               | GUIDE LAMP ON/OFF                                                                | ON                                          | —                 | —              | —             | —                         | ○          | SONG SETTING      | SONG SETTING  |
|               | LYRICS ON/OFF                                                                    | ON                                          | —                 | —              | —             | —                         | ○          | SONG SETTING      | SONG SETTING  |
|               | SONG VOLUME                                                                      | [ACMP/SONG VOLUME]<br>slider value          | —                 | —              | —             | —                         | —          | SONG SETTING      | —             |
| HELP FUNCTION | LANGUAGE                                                                         | ENGLISH                                     | —                 | —              | —             | —                         | ○          | Always backed up. | —             |
|               | TUNE                                                                             | 440.0Hz (A3)                                | —                 | —              | —             | —                         | ○          | TUNE              | TUNE          |
|               | TRANPOSE (ALL)                                                                   | 0                                           | —                 | —              | —             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | TRANPOSE (SONG)                                                                  | 0                                           | —                 | —              | —             | —                         | ○          | VOICE SETTING     | VOICE SETTING |
|               | VOICE SETTING                                                                    | AUTO                                        | —                 | —              | —             | —                         | ○          | VOICE SETTING     | VOICE SETTING |
|               | KEY TOUCH                                                                        | NORMAL                                      | —                 | —              | —             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | FIXED VELOCITY                                                                   | 76                                          | —                 | —              | —             | VOICE SETTING             | ○          | VOICE SETTING     | VOICE SETTING |
|               | LEFT PEDAL FUNCTION                                                              | SOFT                                        | —                 | ○              | ○             | PEDAL                     | ○          | PEDAL             | PEDAL         |
|               | LEFT PART MIDI SEND Ch.                                                          | 3                                           | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | RIGHT 1 PART MIDI SEND Ch.                                                       | 1                                           | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | RIGHT 2 PART MIDI SEND Ch.                                                       | 2                                           | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | LOCAL CONTROL ON/OFF                                                             | ON                                          | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | SYNC. CLOCK                                                                      | INT.                                        | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | PROGRAM CHANGE SEND/RECEIVE ON/OFF                                               | TX&RX (ON)                                  | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | CONTROL CHANGE SEND/RECEIVE ON/OFF                                               | TX&RX (ON)                                  | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | SYSTEM EXCLUSIVE SEND/RECEIVE ON/OFF                                             | TX&RX (ON)                                  | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | START/STOP SEND/RECEIVE ON/OFF                                                   | OFF                                         | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | MIDI FILTER ON/OFF (all channels)                                                | ON                                          | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | MIDI TRANPOSE RECEIVE ON/OFF                                                     | ON                                          | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | ACMP & RHY SEND ON/OFF                                                           | OFF                                         | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | HARMONY SEND ON/OFF                                                              | OFF                                         | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | SEQUENCER SEND ON/OFF                                                            | OFF                                         | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | REMOTE KEYBOARD                                                                  | OFF                                         | —                 | —              | —             | —                         | ○          | MIDI SETTING      | MIDI SETTING  |
|               | MICRO TUNING ON/OFF                                                              | OFF                                         | —                 | —              | —             | —                         | ○          | TUNE              | TUNE          |
|               | MICRO TUNE. SETTING                                                              | 0                                           | —                 | —              | —             | —                         | ○          | TUNE              | TUNE          |
|               | SCALE TUNING SELECT                                                              | PRESET                                      | —                 | —              | —             | TUNE                      | ○          | TUNE              | TUNE          |
|               | PRESET SCALE SELECT                                                              | EQUAL                                       | —                 | —              | —             | TUNE                      | ○          | TUNE              | TUNE          |
|               | PRESET SCALE KEY                                                                 | C                                           | —                 | —              | —             | TUNE                      | ○          | TUNE              | TUNE          |
|               | USER SCALE SETTING                                                               | 0                                           | —                 | —              | —             | TUNE                      | ○          | TUNE              | TUNE          |
|               | BACKUP ON/OFF                                                                    | Set separately for each group. <sup>2</sup> | —                 | —              | —             | —                         | —          | Always backed up. | —             |

1 When a Music Database setup or registration is recalled during Auto Accompaniment playback, the style thereby selected will begin playing immediately if it is the same as the style that is currently playing, or from the top of the next measure if it is a different style.

2 REGISTRATION: ON; Others: OFF

1 Bei Wiederaufruf eines Musikdatenbank-Setup oder einer Registrierung während des Auto Accompaniment-Backup (Backup von Autom. Begleitung) wird der dabei gewählte Style sofort abgespielt, sofern dieser derselbe ist wie der aktuell abgespielte Style, oder ab der obersten Stelle des nächsten Taktes, falls es sich um einen anderen Style handelt.

2 REGISTRATION: ON; Andere: OFF

1 Si une configuration de Music Database ou une registration est rappelée au cours de l'accompagnement automatique, le style ainsi sélectionné sera joué immédiatement s'il est identique au style en cours de lecture, ou au début de la mesure suivante s'il s'agit d'un style différent.

2 REGISTRATION : ON ; Autres : OFF

1 Cuando un registro o los ajustes Music Database están llamados durante una reproducción Auto Accompaniment, el estilo seleccionado reproducirá inmediatamente si es el mismo que el estilo que se está reproduciendo o desde el principio del compás siguiente si es un estilo diferente.

2 REGISTRATION: ON; Otros: OFF

# Fingering Chart / Akkordliste / Tablature / Gráfica de digitado

\* All fingerings shown are simple root-position types.

\* Die hier gezeigten Akkorde sind jeweils die Grundakkorde.

\* Tous les doigtés indiqués sont du type à position fondamentale simple.

\* Todos los digitados se muestran como tipos de posición de raíz sencilla.

## Example for "C" chords

## Beispiele für "C"-Akkorde

## Exemples d'accords en "C"

## Ejemplo de acordes "C"

C



C6



CM7



CM7 (b5)



CM7 (#11)



Cadd9



CM7 (9)



C6 (9)



C (b5)



Caug



C7 (#5)



CM7 (#5)



Cm



Cm6



Cm7



Cm7 (b5)



Cmadd9



CM7 (9)



CM7 (11)



CmM7 (b5)



CmM7



CmM7 (9)



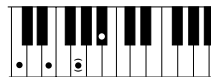
Cm (b5)



Cdim7



C7



C7sus4



C7 (9)



C7 (#11)



C7 (13)



C7 (b5)



C7 (b9)



C7 (b13)



C7 (#9)



Csus4



# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI.....

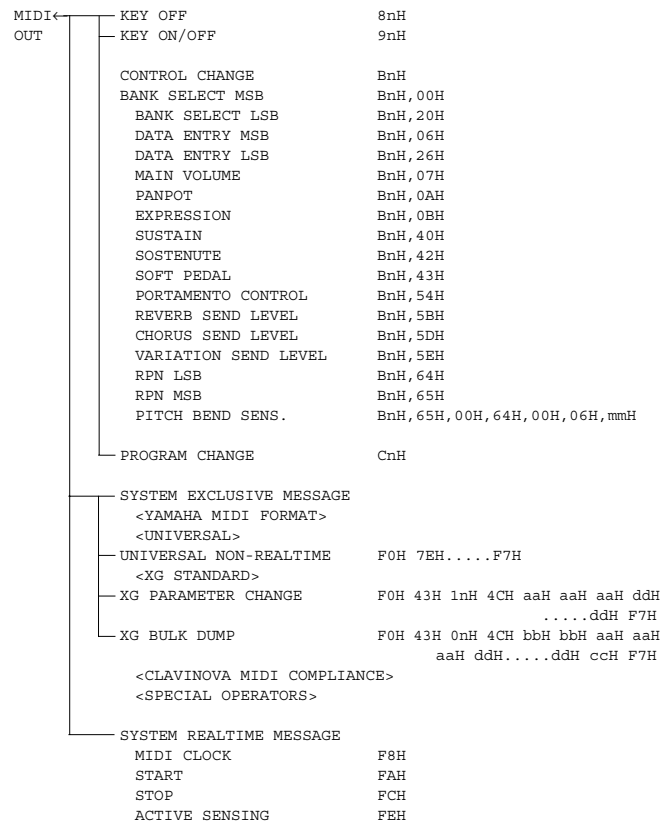
Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter “H” as a suffix. Also, “n” can freely be defined as any whole number.

To enter data/values, refer to the table below.

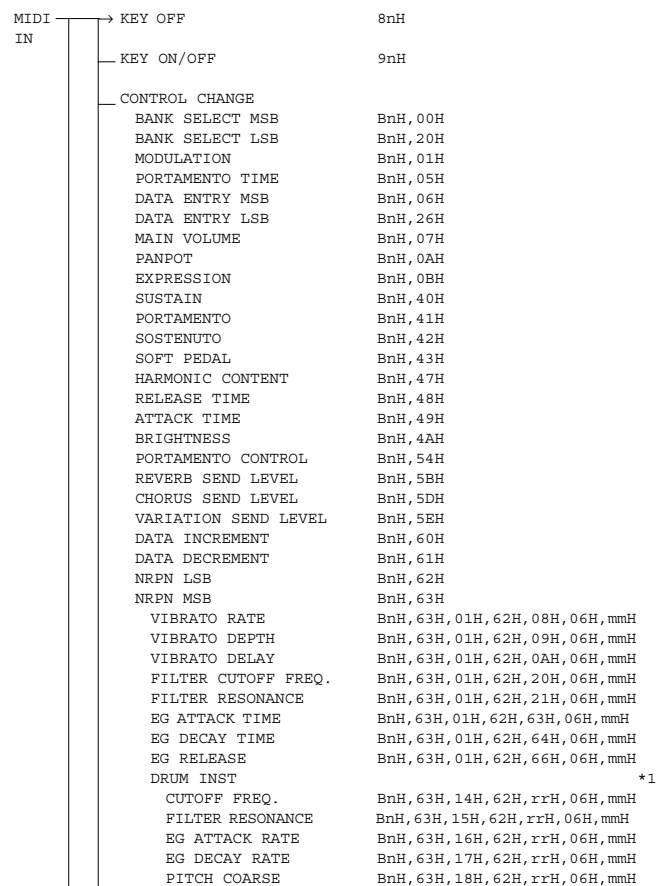
| Decimal | Hexadecimal | Binary    |
|---------|-------------|-----------|
| 0       | 00          | 0000 0000 |
| 1       | 01          | 0000 0001 |
| 2       | 02          | 0000 0010 |
| 3       | 03          | 0000 0011 |
| 4       | 04          | 0000 0100 |
| 5       | 05          | 0000 0101 |
| 6       | 06          | 0000 0110 |
| 7       | 07          | 0000 0111 |
| 8       | 08          | 0000 1000 |
| 9       | 09          | 0000 1001 |
| 10      | 0A          | 0000 1010 |
| 11      | 0B          | 0000 1011 |
| 12      | 0C          | 0000 1100 |
| 13      | 0D          | 0000 1101 |
| 14      | 0E          | 0000 1110 |
| 15      | 0F          | 0000 1111 |
| 16      | 10          | 0001 0000 |
| 17      | 11          | 0001 0001 |
| 18      | 12          | 0001 0010 |
| 19      | 13          | 0001 0011 |
| 20      | 14          | 0001 0100 |
| 21      | 15          | 0001 0101 |
| 22      | 16          | 0001 0110 |
| 23      | 17          | 0001 0111 |
| 24      | 18          | 0001 1000 |
| 25      | 19          | 0001 1001 |
| 26      | 1A          | 0001 1010 |
| 27      | 1B          | 0001 1011 |
| 28      | 1C          | 0001 1100 |
| 29      | 1D          | 0001 1101 |
| 30      | 1E          | 0001 1110 |
| 31      | 1F          | 0001 1111 |
| 32      | 20          | 0010 0000 |
| 33      | 21          | 0010 0001 |
| 34      | 22          | 0010 0010 |
| 35      | 23          | 0010 0011 |
| 36      | 24          | 0010 0100 |
| 37      | 25          | 0010 0101 |
| 38      | 26          | 0010 0110 |
| 39      | 27          | 0010 0111 |
| 40      | 28          | 0010 1000 |
| 41      | 29          | 0010 1001 |
| 42      | 2A          | 0010 1010 |
| 43      | 2B          | 0010 1011 |
| 44      | 2C          | 0010 1100 |
| 45      | 2D          | 0010 1101 |
| 46      | 2E          | 0010 1110 |
| 47      | 2F          | 0010 1111 |
| 48      | 30          | 0011 0000 |
| 49      | 31          | 0011 0001 |
| 50      | 32          | 0011 0010 |
| 51      | 33          | 0011 0011 |
| 52      | 34          | 0011 0100 |
| 53      | 35          | 0011 0101 |
| 54      | 36          | 0011 0110 |
| 55      | 37          | 0011 0111 |
| 56      | 38          | 0011 1000 |
| 57      | 39          | 0011 1001 |
| 58      | 3A          | 0011 1010 |
| 59      | 3B          | 0011 1011 |
| 60      | 3C          | 0011 1100 |
| 61      | 3D          | 0011 1101 |
| 62      | 3E          | 0011 1110 |
| 63      | 3F          | 0011 1111 |

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) displays the Note On Message for each channel (1-16). 176-191/ BnH/1011 0000-1011 1111 displays the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 displays the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddd denotes the data/value.

## (1) TRANSMIT FLOW



## (2) RECEIVE FLOW



|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| PITCH FINE                  | BnH, 63H, 19H, 62H, rrH, 06H, mmH                  |
| LEVEL                       | BnH, 63H, 1AH, 62H, rrH, 06H, mmH                  |
| PANPOT                      | BnH, 63H, 1CH, 62H, rrH, 06H, mmH                  |
| REVERB SEND                 | BnH, 63H, 1DH, 62H, rrH, 06H, mmH                  |
| CHORUS SEND                 | BnH, 63H, 1EH, 62H, rrH, 06H, mmH                  |
| VARIATION SEND              | BnH, 63H, 1FH, 62H, rrH, 06H, mmH                  |
| RPN LSB                     | BnH, 64H                                           |
| RPN MSB                     | BnH, 65H                                           |
| PITCH BEND SENS.            | BnH, 65H, 00H, 64H, 00H, 06H, mmH                  |
| FINE TUNING                 | BnH, 65H, 00H, 64H, 01H, 06H, mmH, 26H, 11H        |
| COARSE TUNING               | BnH, 65H, 00H, 64H, 02H, 06H, mmH                  |
| NULL                        | BnH, 65H, 7FH, 64H, 7FH                            |
| ALL SOUND OFF               | BnH, 78H, 00H                                      |
| RESET ALL CONTROLLERS       | BnH, 79H, 00H                                      |
| LOCAL CONTROL               | BnH, 7AH                                           |
| ALL NOTES OFF               | BnH, 7BH, 00H                                      |
| OMNI OFF                    | BnH, 7CH, 00H                                      |
| OMNI ON                     | BnH, 7DH, 00H                                      |
| MONO                        | BnH, 7EH                                           |
| POLY                        | BnH, 7FH                                           |
| PROGRAM CHANGE              | CnH                                                |
| CHANNEL AFTER TOUCH         | DnH                                                |
| PITCH BEND CHANGE           | EnH                                                |
| SYSTEM EXCLUSIVE MESSAGE    |                                                    |
| <YAMAHA MIDI FORMAT>        |                                                    |
| <UNIVERSAL>                 |                                                    |
| UNIVERSAL REALTIME          | F0H 7FH....F7H                                     |
| UNIVERSAL NON-REALTIME      | F0H 7EH....F7H                                     |
| <XG STANDARD>               |                                                    |
| XG PARAMETER CHANGE         | F0H 43H 1nH 4CH aaH aaH ddH....ddH F7H             |
| XG BULK DUMP                | F0H 43H 0nH 4CH bbH bbH aaH aaH ddH....ddH ccH F7H |
| PARAMETER REQUEST           | F0H 43H 3nH 4CH aaH aaH aaH F7H                    |
| DUMP REQUEST                | F0H 43H 2nH 4CH aaH aaH aaH F7H                    |
| <CLAVINOVA MIDI COMPLIANCE> |                                                    |
| <SPETIAL OPERATORS>         |                                                    |
| <Others>                    |                                                    |
| SYSTEM REALTIME MESSAGE     |                                                    |
| MIDI CLOCK                  | F8H                                                |
| START                       | FAH                                                |
| STOP                        | FCH                                                |
| ACTIVE SENSING              | FEH                                                |

When DRUM VOICE is selected and program change data for a different DRUM VOICE is received, the currently selected Drum Setup data will be replaced with the new DRUM VOICE DATA.

## (3-1-4) CHANNEL AFTER TOUCH (Receive only)

|        |                |                                 |
|--------|----------------|---------------------------------|
| STATUS | 1101nnnn (DnH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| VALUE  | 0vvvvvvv       | v = 0 - 127 AFTER TOUCH VALUE   |

## (3-1-5) PITCH BEND CHANGE

|        |                |                                 |
|--------|----------------|---------------------------------|
| STATUS | 1110nnnn (EnH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| LSB    | 0vvvvvvv       | PITCH BEND CHANGE LSB           |
| MSB    | 0vvvvvvv       | PITCH BEND CHANGE MSB           |

## (3-1-6) CONTROL CHANGE

|                |                |                                 |
|----------------|----------------|---------------------------------|
| STATUS         | 1011nnnn (BnH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| CONTROL NUMBER | 0ccccccc       |                                 |
| CONTROL VALUE  | 0vvvvvvv       |                                 |

### \* Transmit CONTROL NUMBER.

|                                    |                      |                                                               |
|------------------------------------|----------------------|---------------------------------------------------------------|
| c = 0                              | BANK SELECT MSB      | ; v = 0:XG NORMAL, 64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM |
| c = 32                             | BANK SELECT LSB      | ; v = 0 - 127                                                 |
| c = 6                              | DATA ENTRY MSB       | ; v = 0 - 127 *1                                              |
| c = 38                             | DATA ENTRY LSB       | ; v = 0 - 127 *1                                              |
| c = 7                              | MAIN VOLUME          | ; v = 0 - 127                                                 |
| c = 10                             | PANPOT; v = 0 - 127  |                                                               |
| c = 11                             | EXPRESSION           | ; v = 0 - 127                                                 |
| c = 64                             | SUSTAIN              | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 66                             | SOSTENUTO            | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 67                             | SOFT PEDAL           | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 84                             | PORTAMENTO CONTROL   | ; v = 0 - 127                                                 |
| c = 91                             | REVERB SEND LEVEL    | ; v = 0 - 127                                                 |
| c = 93                             | CHORUS SEND LEVEL    | ; v = 0 - 127                                                 |
| c = 94                             | VARIATION SEND LEVEL | ; v = 0 - 127                                                 |
| (When only Connection = 1[System]) |                      |                                                               |
| c = 100                            | RPN LSB              | ; v = 0 - 127                                                 |
| c = 101                            | RPN MSB              | ; v = 0 - 127                                                 |

### \* Receive CONTROL NUMBER.

|                                    |                      |                                                               |
|------------------------------------|----------------------|---------------------------------------------------------------|
| c = 0                              | BANK SELECT MSB      | ; v = 0:XG NORMAL, 64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM |
| c = 32                             | BANK SELECT LSB      | ; v = 0 - 127                                                 |
| c = 1                              | MODULATION           | ; v = 0 - 127 *2                                              |
| c = 5                              | PORTAMENTO TIME      | ; v = 0 - 127 *2                                              |
| c = 6                              | DATA ENTRY MSB       | ; v = 0 - 127 *1                                              |
| c = 38                             | DATA ENTRY LSB       | ; v = 0 - 127 *1                                              |
| c = 7                              | MAIN VOLUME          | ; v = 0 - 127                                                 |
| c = 10                             | PANPOT; v = 0 - 127  |                                                               |
| c = 11                             | EXPRESSION           | ; v = 0 - 127                                                 |
| c = 64                             | SUSTAIN              | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 65                             | PORTAMENTO           | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 66                             | SOSTENUTO            | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 67                             | SOFT PEDAL           | ; v = 0-63:OFF, 64-127:ON *2                                  |
| c = 71                             | HARMONIC CONTENT     | ; v = 0:-64 - 64:0 - 127:+63 *2                               |
| c = 72                             | RELEASE TIME         | ; v = 0:-64 - 64:0 - 127:+63 *2                               |
| c = 73                             | ATTACK TIME          | ; v = 0:-64 - 64:0 - 127:+63 *2                               |
| c = 74                             | BRIGHTNESS           | ; v = 0:-64 - 64:0 - 127:+63 *2                               |
| c = 84                             | PORTAMENTO CONTROL   | ; v = 0 - 127 *2                                              |
| c = 91                             | REVERB SEND LEVEL    | ; v = 0 - 127                                                 |
| c = 93                             | CHORUS SEND LEVEL    | ; v = 0 - 127                                                 |
| c = 94                             | VARIATION SEND LEVEL | ; v = 0 - 127                                                 |
| (When only Connection = 1[System]) |                      |                                                               |
| c = 96                             | DATA INCREMENT       | ; v = 0 - 127 *1                                              |
| c = 97                             | DATA DECREMENT       | ; v = 0 - 127 *1                                              |
| RPN MSB/LSB, NRPN MSB/LSB          |                      |                                                               |

\*1 Only when setting the appointed parameter with RPN, NRPN.

\*2 Does not effect Rhythm Voice.

• Until a PROGRAM CHANGE message is received, the BANK SELECT operation will be suspended. When a Voice, including VOICE BANK, is changed, set the BANK SELECT and Program Change Message, and transmit in the following order, BANK SELECT MSB, LSB, PROGRAM CHANGE.

• MODULATION controls the Vibrato Depth.

• PORTAMENTO TIME controls the Pitch Change Speed when the Portamento Switch = ON. 0 being the shortest time, and 127 being the longest.

• PANPOT changes the value for the melody voice and rhythm voice in relation to the preset value.

## (3) TRANSMIT/RECEIVE DATA

### (3-1) CHANNEL VOICE MESSAGES

#### (3-1-1) KEY OFF

|             |                |                                 |
|-------------|----------------|---------------------------------|
| STATUS      | 1000nnnn (8nH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| NOTE NUMBER | 0kkkkkkk       | k = 0 (C-2) - 127 (G8)          |
| VELOCITY    | 0vvvvvvv       | v: ignored                      |

#### (3-1-2) KEY ON/OFF

|             |                |                                 |
|-------------|----------------|---------------------------------|
| STATUS      | 1001nnnn (9nH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| NOTE NUMBER | 0kkkkkkk       | k = 0 (C-2) - 127 (G8)          |
| VELOCITY    | 0vvvvvvv       | (v ≠ 0) NOTE ON                 |
|             | 00000000       | (v = 0) NOTE OFF                |

#### (3-1-3) PROGRAM CHANGE

|                |                |                                 |
|----------------|----------------|---------------------------------|
| STATUS         | 1100nnnn (CnH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| PROGRAM NUMBER | 0ppppppp       | p = 0 - 127                     |

#### \* PROGRAM NUMBER: XG DRUM VOICE number correspondence

|        |               |
|--------|---------------|
| P = 0  | Standard Kit  |
| P = 1  | Standard2 Kit |
| P = 8  | Room Kit      |
| P = 16 | Rock Kit      |
| P = 24 | Electro Kit   |
| P = 25 | Analog Kit    |
| P = 27 | Dance Kit     |
| P = 32 | Jazz Kit      |
| P = 40 | Brush Kit     |
| P = 48 | Classic Kit   |

#### \* PROGRAM NUMBER: XG SFX KIT number correspondence

|       |          |
|-------|----------|
| P = 0 | SFX1 Kit |
| P = 1 | SFX2 Kit |

- Portamento time is fixed to 0 when the PORTAMENTO CONTROL is used.
- HARMONIC CONTENT applies adjustment to the resonance value that is set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. As values get higher the sound becomes increasingly eccentric. Note that for some voices the effective parameter range is narrower than the legal parameter range.
- RELEASE TIME applies adjustment to the envelope release time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- ATTACK TIME applies adjustment to the envelope attack time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- BRIGHTNESS applies adjustment to the cut-off frequency set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. Lower voices produce a softer sound. For some voices the effective parameter range is narrower than the legal parameter range.

### (3-2) CHANNEL MODE MESSAGES

|                |                |                                 |
|----------------|----------------|---------------------------------|
| STATUS         | 1011nnnn (BnH) | n = 0 - 15 VOICE CHANNEL NUMBER |
| CONTROL NUMBER | 0ccccccc       | c = CONTROL NUMBER              |
| CONTROL VALUE  | 0vvvvvvv       | v = DATA VALUE                  |

#### (3-2-1) ALL SOUND OFF (Receive only)

(CONTROL NUMBER = 78H , DATA VALUE = 0)

Switches off all sound from the channel. Reset Note On and Hold On conditions established by Channel Messages.

#### (3-2-2) RESET ALL CONTROLLERS (Receive only)

(CONTROL NUMBER = 79H , DATA VALUE = 0)

Resets controllers as follows.

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| PITCH BEND CHANGE  | 0 (Center)                                             |
| AFTER TOUCH        | 0 (min.)                                               |
| MODULATION         | 0 (min.)                                               |
| EXPRESSION         | 127 (max.)                                             |
| SUSTAIN            | 0 (off)                                                |
| SOSTENUTO          | 0 (off)                                                |
| SOFT PEDAL         | 0 (off)                                                |
| NRPN               | Sets number to null. (Internal data remains unchanged) |
| RPN                | Sets number to null. (Internal data remains unchanged) |
| PORTAMENTO CONTROL | Resets portamento source note number                   |
| PORTAMENTO         | 0 (off)                                                |

#### (3-2-3) LOCAL CONTROL (Receive only)

(CONTROL NUMBER = 7AH , DATA VALUE = 0/7FH)

When the DATA VALUE = 7FH, LOCAL ON is activated where playing the keys on the keyboard will produce sound.

When the DATA VALUE = 0, LOCAL OFF is activated where playing the keys on the keyboard will not produce any sound.

#### (3-2-4) ALL NOTES OFF (Receive only)

(CONTROL NUMBER = 7BH , DATA VALUE = 0)

Switches off all of the channel's "on" notes. However, any notes being held by SUSTAIN or SOSTENUTO continue to sound until SUSTAIN/SOSTENUTO goes off.

#### (3-2-5) OMNI OFF (Receive only) (CONTROL NUMBER = 7CH , DATA VALUE = 0)

Same processing as for All Notes Off.

#### (3-2-6) OMNI ON (Receive only) (CONTROL NUMBER = 7DH , DATA VALUE = 0)

Same processing as for All Notes Off. Omni On is not executed.

#### (3-2-7) MONO (Receive only) (CONTROL NUMBER = 7EH , DATA VALUE = 0)

Same processing as for All Notes Off. If the 3rd byte is in a range of 0-16 the corresponding channel will be changed to Mode 4 (m=1).

#### (3-2-8) POLY (Receive only) (CONTROL NUMBER = 7FH , DATA VALUE = 0)

Same processing as for All Sounds Off and the corresponding channel will be changed to Mode 3.

### (3-3) REGISTERED PARAMETER NUMBER(RPN)

|                |                |                                       |
|----------------|----------------|---------------------------------------|
| STATUS         | 1011nnnn (BnH) | n = 0 - 15 VOICE CHANNEL NUMBER       |
| RPN LSB        | 01100100 (64H) |                                       |
| RPN LSB NUMBER | 0ppppppp       | p = RPN LSB (refer to the list below) |
| RPN MSB        | 01100101 (65H) |                                       |
| RPN MSB NUMBER | 0qqqqqqq       | q = RPN MSB (refer to the list below) |
| DATA ENTRY MSB | 00000110 (06H) |                                       |
| DATA VALUE     | 0mmmmmmm       | m = Data Value                        |
| DATA ENTRY LSB | 00100110 (26H) |                                       |
| DATA VALUE     | 01111111       | l = Data Value                        |

First appoints the parameter for RPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

| RPN     | D. ENTRY | PARAMETER NAME         | DATA RANGE                                                                                   |
|---------|----------|------------------------|----------------------------------------------------------------------------------------------|
| LSB MSB | MSB LSB  |                        |                                                                                              |
| 00H 00H | mmH -    | PITCH BEND SENSITIVITY | 00H-18H (0-24 semitones)                                                                     |
| 01H 00H | mmH 11H  | FINE TUNE              | {mmH, 11H} = {00H, 00H} - {40H, 00H} - {7FH, 7FH}<br>(-8192*100/8192) - 0 - (+8192*100/8192) |
| 02H 00H | mmH -    | COARSE TUNE            | 28H - 40H - 58H (-24 - 0 - +24 semitones)                                                    |
| 7FH 7FH | - -      | NULL                   |                                                                                              |

Clears the current RPN number setting.  
Does not change the internal parameter settings.

### (3-4) NON-REGISTERED PARAMETER NUMBER(NRPN) (Receive only)

|                 |                |                                        |
|-----------------|----------------|----------------------------------------|
| STATUS          | 1011nnnn (BnH) | n = 0 - 15 VOICE CHANNEL NUMBER        |
| NRPN LSB        | 01100010 (62H) |                                        |
| NRPN LSB NUMBER | 0ppppppp       | p = NRPN LSB (refer to the list below) |
| NRPN MSB        | 01100011 (63H) |                                        |
| NRPN MSB NUMBER | 0qqqqqqq       | q = NRPN MSB (refer to the list below) |
| DATA ENTRY MSB  | 00000110 (06H) |                                        |
| DATA VALUE      | 0mmmmmmm       | m = Data Value                         |

First appoints the parameter for NRPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

| NRPN    | D. ENTRY | PARAMETER NAME            | DATA RANGE                                               |
|---------|----------|---------------------------|----------------------------------------------------------|
| MSB LSB | MSB LSB  |                           |                                                          |
| 01H 08H | mmH -    | VIBRATO RATE              | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 09H | mmH -    | VIBRATO DEPTH             | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 0AH | mmH -    | VIBRATO DELAY             | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 20H | mmH -    | FILTER CUTOFF FREQUENCY   | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 21H | mmH -    | FILTER RESONANCE          | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 63H | mmH -    | EG ATTACK TIME            | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 64H | mmH -    | EG DECAY TIME             | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 01H 66H | mmH -    | EG RELEASE                | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 14H rrH | mmH -    | DRUM FILTER CUTOFF FREQ.  | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 15H rrH | mmH -    | DRUM FILTER RESONANCE     | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 16H rrH | mmH -    | DRUM AEG ATTACK RATE      | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 17H rrH | mmH -    | DRUM AEG DECAY RATE       | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 18H rrH | mmH -    | DRUM PITCH COARSE         | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 19H rrH | mmH -    | DRUM PITCH FINE           | 00H - 40H - 7FH (-64 - 0 - +63)                          |
| 1AH rrH | mmH -    | DRUM LEVEL                | 00H - 7FH (0 - max.)                                     |
| 1CH rrH | mmH -    | DRUM PANPOT               | 00H , 01H - 40H - 7FH<br>(random, left - center - right) |
| 1DH rrH | mmH -    | DRUM REVERB SEND LEVEL    | 00H - 7FH (0 - max.)                                     |
| 1EH rrH | mmH -    | DRUM CHORUS SEND LEVEL    | 00H - 7FH (0 - max.)                                     |
| 1FH rrH | mmH -    | DRUM VARIATION SEND LEVEL | 00H - 7FH (0 - max.)                                     |

The MSB 14H-1FH (for drums) message is received when multi-part parameters PART MODE = DRUMS1...2.  
rrH : drum instrument note number

### (3-5) SYSTEM REALTIME MESSAGES

#### (3-5-1) MIDI CLOCK

|        |                |
|--------|----------------|
| STATUS | 11111000 (F8H) |
|--------|----------------|

**Transmission:** 96 clocks per measure are transmitted.

**Reception:** If the instrument's clock is set to external, after FAH is received from the external device the instrument's clock will sync with the 96 beats per measure received from the external device.

Decides whether the internal clock, or Timing Clocks received via the MIDI IN will be used.

#### (3-5-2) START

|        |                |
|--------|----------------|
| STATUS | 11111010 (FAH) |
|--------|----------------|

**Transmission:** Transmitted when instrument's Rhythm or Song playback is started.

**Reception:** Depending upon the condition, Rhythm, Song Playback, or Song Rec will start.

#### (3-5-3) STOP

|        |                |
|--------|----------------|
| STATUS | 11111100 (FCH) |
|--------|----------------|

**Transmission:** Transmitted when instrument's Rhythm or Song playback is stopped.

**Reception:** Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.

# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI ●●●

## (3-5-4) ACTIVE SENSING

STATUS 11111110 (FEH)

**Transmission:** Transmitted approximately once every 200msec.

**Reception:** Sensing is started once this Code is received. If Status or Data is not received within 400ms, the MIDI Receive Buffer will be cleared, and all notes, including those being sustained, will be cut OFF. Also, all control values will be reset to their factory defaults.

## (3-6) SYSTEM EXCLUSIVE MESSAGE

### (3-6-1) YAMAHA MIDI FORMAT

#### (3-6-1-1) SECTION CONTROL

| binary   | hexadecimal |                                  |
|----------|-------------|----------------------------------|
| 11110000 | F0          | Exclusive status                 |
| 01000011 | 43          | YAMAHA ID                        |
| 01111110 | 7E          | Style                            |
| 00000000 | 00          |                                  |
| 0sssssss | SS          | Switch No.                       |
| 00H      |             | : INTRO A                        |
| 01H      |             | : INTRO B                        |
| 02H      |             | : INTRO C/D                      |
| 03H-07H  |             | : INTRO C/D                      |
| 08H      |             | : MAIN A                         |
| 09H      |             | : MAIN B                         |
| 0AH      |             | : MAIN C                         |
| 0BH-0FH  |             | : MAIN D                         |
| 10H      |             | : FILL IN A                      |
| 11H      |             | : FILL IN B                      |
| 12H      |             | : FILL IN C                      |
| 13H-17H  |             | : FILL IN D                      |
| 18H      |             | : BREAK FILL                     |
| 19H      |             | : BREAK FILL                     |
| 1AH      |             | : BREAK FILL                     |
| 1BH-1FH  |             | : BREAK FILL                     |
| 20H      |             | : ENDING A                       |
| 21H      |             | : ENDING B                       |
| 22H      |             | : ENDING C/D                     |
| 23H-27H  |             | : ENDING C/D                     |
| 0ddddd   | DD          | Switch On/Off: 00H(Off), 7FH(On) |
| 11110111 | F7          | End of Exclusive                 |

When an ON code is received, the appointed section will be changed.

#### (3-6-1-2) TEMPO CONTROL

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 01111110 | 7E          | Style            |
| 00000000 | 01          |                  |
| 0ttttttt | TT          | Tempo4           |
| 0ttttttt | TT          | Tempo3           |
| 0ttttttt | TT          | Tempo2           |
| 0ttttttt | TT          | Tempo1           |
| 11110111 | F7          | End of Exclusive |

The internal clock will be set to the received Tempo value.

Tempo Meta Event is a large data block (24-bit), it is divided into 4 groups with 7-bits going into each of the Tempos 1-4 (4 receives the remaining 3 bits).

### (3-6-1-3) CHORD CONTROL type1

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 01111110 | 7E          | Style            |
| 00000010 | 02          | type 1           |
| 0ddddd   | dd          | chord root(cr)   |
| 0ddddd   | dd          | chord type(ct)   |
| 0ddddd   | dd          | bass note(bn)    |
| 0ddddd   | dd          | bass type(bt)    |
| 11111110 | F7          | End of Exclusive |

Chord transmit: Transmitted using type 1 format.

| cr       | Chord Root | 0kkkn         | nnn      | (kkk:Change symbol, nnn:Note) |
|----------|------------|---------------|----------|-------------------------------|
| Binary   | Hex        | Change symbol | Binary   | Hex Note                      |
| 0000nnnn | 0n         | bbb(3 flats)  | 0kkk0000 | k0 reserved                   |
| 0001nnnn | 1n         | bb(2 flats)   | 0kkk0001 | k1 C                          |
| 0010nnnn | 2n         | b(1 flat)     | 0kkk0010 | k2 D                          |
| 0011nnnn | 3n         | natural       | 0kkk0011 | k3 E                          |
| 0100nnnn | 4n         | #(1 sharp)    | 0kkk0100 | k4 F                          |
| 0101nnnn | 5n         | ##(2 sharps)  | 0kkk0101 | k5 G                          |
| 0110nnnn | 6n         | ###(3 sharps) | 0kkk0110 | k6 A                          |
|          |            |               | 0kkk0111 | k7 B                          |

| ct       | Chord Type   |     | 0 - 34,127                               |          |     |     |            |
|----------|--------------|-----|------------------------------------------|----------|-----|-----|------------|
| Binary   | Hex          | Dec | Chord type                               | Binary   | Hex | Dec | Chord type |
| 00000000 | 00           | 0   | Maj                                      | 00010010 | 12  | 18  | dim7       |
| 00000001 | 01           | 1   | Maj6                                     | 00010011 | 13  | 19  | 7th        |
| 00000010 | 02           | 2   | Maj7                                     | 00010100 | 14  | 20  | 7sus4      |
| 00000011 | 03           | 3   | Maj7 (#11)                               | 00010101 | 15  | 21  | 7b5        |
| 00000100 | 04           | 4   | Maj (9)                                  | 00010110 | 16  | 22  | 7 (9)      |
| 00000101 | 05           | 5   | Maj7 (9)                                 | 00010111 | 17  | 23  | 7 (#11)    |
| 00000110 | 06           | 6   | Maj6 (9)                                 | 00011000 | 18  | 24  | 7 (13)     |
| 00000111 | 07           | 7   | aug                                      | 00011001 | 19  | 25  | 7 (b9)     |
| 00001000 | 08           | 8   | min                                      | 00011010 | 1A  | 26  | 7 (b13)    |
| 00001001 | 09           | 9   | min6                                     | 00011011 | 1B  | 27  | 7 (#9)     |
| 00001010 | 0A           | 10  | min7                                     | 00011100 | 1C  | 28  | Maj7aug    |
| 00001011 | 0B           | 11  | min7b5                                   | 00011101 | 1D  | 29  | 7aug       |
| 00001100 | 0C           | 12  | min (9)                                  | 00011110 | 1E  | 30  | 1+8        |
| 00001101 | 0D           | 13  | min7 (9)                                 | 00011111 | 1F  | 31  | 1+5        |
| 00001110 | 0E           | 14  | min7 (11)                                | 00100000 | 20  | 32  | sus4       |
| 00001111 | 0F           | 15  | minMaj7                                  | 00100001 | 21  | 33  | 1+2+5      |
| 00010000 | 10           | 16  | minMaj7 (9)                              | 00100010 | 22  | 34  | cc         |
| 00010001 | 11           | 17  | dim                                      |          |     |     |            |
| bn       | On Bass Note |     | Same as Chord root,<br>127:No bass chord |          |     |     |            |
| bt       | Bass Chord   |     | Same as Chord type<br>127:No bass chord  |          |     |     |            |

### (3-6-2) UNIVERSAL SYSTEM EXCLUSIVE

#### (3-6-2-1) UNIVERSAL REALTIME MESSAGE

##### (3-6-2-1-1) MIDI MASTER VOLUME (Receive only)

| binary   | hexadecimal |                                                  |
|----------|-------------|--------------------------------------------------|
| 11110000 | F0          | Exclusive status                                 |
| 01111110 | 7F          | Universal Realtime                               |
| 01111111 | 7F          | ID of target Device                              |
| 00001001 | 04          | Sub-ID #1=Device Control Message                 |
| 00000001 | 01          | Sub-ID #2=Master Volume                          |
| 0sssssss | SS          | Volume LSB                                       |
| 0ttttttt | TT          | Volume MSB                                       |
| 11110111 | F7          | End of Exclusive                                 |
| or       |             |                                                  |
| 11110000 | F0          | Exclusive status                                 |
| 01111110 | 7F          | Universal Realtime                               |
| 0xxxxnnn | XN          | When N is received N=0-F, whichever is received. |
|          |             | When N is transmitted N always=0.                |
|          |             | X = don't care                                   |
| 00001001 | 04          | Sub-ID #1=Device Control Message                 |
| 00000001 | 01          | Sub-ID #2=Master Volume                          |
| 0sssssss | SS          | Volume LSB                                       |
| 0ttttttt | TT          | Volume MSB                                       |
| 11110111 | F7          | End of Exclusive                                 |

The volume for all channels will be changed simultaneously.

The TT value is used as the MIDI Master Volume value. (the SS value is ignored.)

### (3-6-2-2) UNIVERSAL NON REALTIME MESSAGE

#### (3-6-2-2-1) GENERAL MIDI SYSTEM ON

| binary   | hexadecimal |                                                                                                         |
|----------|-------------|---------------------------------------------------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                                                                        |
| 01111110 | 7E          | Universal Non-Realtime                                                                                  |
| 01111111 | 7F          | ID of target Device                                                                                     |
| 00001001 | 09          | Sub-ID #1=General MIDI Message                                                                          |
| 00000001 | 01          | Sub-ID #2=General MIDI On                                                                               |
| 11110111 | F7          | End of Exclusive                                                                                        |
| or       |             |                                                                                                         |
| 11110000 | F0          | Exclusive status                                                                                        |
| 01111110 | 7E          | Universal Non-Realtime                                                                                  |
| 0xxxnnnn | XN          | When N is received N=0-F, whichever is received.<br>When N is transmitted N always=0.<br>X = don't care |
| 00001001 | 09          | Sub-ID #1=General MIDI Message                                                                          |
| 00000001 | 01          | Sub-ID #2=General MIDI On                                                                               |
| 11110111 | F7          | End of Exclusive                                                                                        |

Depending upon the received ON message, the System Mode will be changed to XG.  
Except MIDI Master Tuning, all control data be reset to default values.  
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

After the GM System ON message is received, message reception of the following will be limited.

- Bank Select MSB-LSB in channel 10 will be ignored and the drum voice will be fixed.
- Bank Select MSB-LSB except in channel 10 will be ignored except 127/0.
- NRPN is not received.

When XG SYSTEM ON is received, these restrictions will be cancelled.

### (3-6-3) XG STANDARD

#### (3-6-3-1) XG PARAMETER CHANGE

##### (3-6-3-1-1) XG SYSTEM ON

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 0001nnnn | 1N          | Device Number    |
| 01001100 | 4C          | Model ID         |
| 00000000 | 00          | Address High     |
| 00000000 | 00          | Address Mid      |
| 01111110 | 7E          | Address Low      |
| 00000000 | 00          | Data             |
| 11110111 | F7          | End of Exclusive |

Depending upon the received ON message, the SYSTEM MODE will be changed to XG. Controllers will be reset, all values of Multi Part and Effect, and All System values denoted by "XG" data within All System will be reset to default values in the table.  
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

##### (3-6-3-1-2) XG PARAMETER CHANGE

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 0001nnnn | 1N          | Device Number    |
| 01001100 | 4C          | Model ID         |
| 0aaaaaaa | AA          | Address High     |
| 0aaaaaaa | AA          | Address Mid      |
| 0aaaaaaa | AA          | Address Low      |
| 0ddddd   | DD          | Data             |
|          |             |                  |
| 11110111 | F7          | End of Exclusive |

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.  
For more information on Address and Parameters, refer to < Table 1-2 > (page 20) and < Table 1-4 > ~ < Table 1-6 > (pages 20-23).

The following Parameter Changes are handled.

XG System Data  
Multi Effect 1 Data  
Multi Part Data  
Drums Setup Data

### (3-6-3-2) XG BULK DUMP

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 0000nnnn | 0N          | Device Number    |
| 01001100 | 4C          | Model ID         |
| 0bbbbbbb | BB          | ByteCount        |
| 0bbbbbbb | BB          | ByteCount        |
| 0aaaaaaa | AA          | Address High     |
| 0aaaaaaa | AA          | Address Mid      |
| 0aaaaaaa | AA          | Address Low      |
| 0ddddd   | DD          | Data             |
|          |             |                  |
| 0ccccccc | CC          | Check sum        |
| 11110111 | F7          | End of Exclusive |

For more information on Address and Byte Count, refer to < Table 1-2 > ~ < Table 1-6 > (pages 20-23).

The Check Sum value is set such that the sum of Byte Count, Address, Data, and Check Sum has value zero in its seven least significant bits.

If the top of the block is appointed to the Address the XG Bulk Dump, Bulk Request will be received.

The Block is a unit that consists of the data, arranged in the list, as the Total Size.

The following Bulk Dumps are handled.

XG System Data  
Multi Effect 1 Data (Individual effect unit)  
Multi Part Data (Individual part unit)  
Drums Setup Data (Individual note unit)  
System Information (Transmit only)

### (3-6-3-3) XG PARAMETER REQUEST (Receive only)

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 0011nnnn | 3n          | Device Number    |
| 01001100 | 4C          | Model ID         |
| 0aaaaaaa | AA          | Address High     |
| 0aaaaaaa | AA          | Address Mid      |
| 0aaaaaaa | AA          | Address Low      |
| 11110111 | F7          | End of Exclusive |

For more information on Address and Byte Count refer to < Table 1-2 > (page 20) and < Table 1-4 > ~ < Table 1-6 > (pages 20-23).

The following Parameter Requests are handled.

XG System Data  
Multi Effect 1 Data  
Multi Part Data  
Drums Setup Data

### (3-6-3-4) XG DUMP REQUEST (Receive only)

| binary   | hexadecimal |                  |
|----------|-------------|------------------|
| 11110000 | F0          | Exclusive status |
| 01000011 | 43          | YAMAHA ID        |
| 0010nnnn | 2n          | Device Number    |
| 01001100 | 4C          | Model ID         |
| 0aaaaaaa | AA          | Address High     |
| 0aaaaaaa | AA          | Address Mid      |
| 0aaaaaaa | AA          | Address Low      |
| 11110111 | F7          | End of Exclusive |

For more information on Address and Byte Count refer to < Table 1-2 > ~ < Table 1-6 > (pages 20-23).

The following Dump Requests are handled.

XG System Data  
Multi Effect 1 Data (Individual module unit)  
Multi Part Data (Individual part unit)  
Drums Setup Data (Individual note unit)  
System Information

### (3-6-4) CLAVINOVA MIDI COMPLIANCE

#### (3-6-4-1) INTERNAL CLOCK / EXTERNAL CLOCK (Receive only)

| binary   | hexadecimal |                                           |
|----------|-------------|-------------------------------------------|
| 11110000 | F0          | Exclusive status                          |
| 01000011 | 43          | YAMAHA ID                                 |
| 01110011 | 73          | Clavinova ID                              |
| 00000001 | 01          | Clavinova common ID                       |
| 0000001n | 0N          | N: 2 (Internal Clock), 3 (External Clock) |
| 11110111 | F7          | End of Exclusive                          |

## (3-6-4-2) DOC MULTI TIMBRE ON / OFF (Receive only)

| binary   | hexadecimal |                                                      |
|----------|-------------|------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                     |
| 01000011 | 43          | YAMAHA ID                                            |
| 01110011 | 73          | Clavinova ID                                         |
| 00000001 | 01          | Clavinova common ID                                  |
| 00000110 | 1N          | N:3 (DOC Multi Timbre Off) , 4 (DOC Multi Timbre On) |
| 11110111 | F7          | End of Exclusive                                     |

## (3-6-4-3) PANEL LED ON / OFF (Receive only)

| binary   | hexadecimal |                                                                                                                                |
|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                                                                                               |
| 01000011 | 43          | YAMAHA ID                                                                                                                      |
| 01110011 | 73          | Clavinova ID                                                                                                                   |
| 00000001 | 01          | Clavinova common ID                                                                                                            |
| 00011010 | 1A          | PANEL LED On/Off                                                                                                               |
| 0mmmmmm  | MM          | MM: 00H (LED Off) , 01H (LED On) , 02H (The LED flashes)<br>03H (LED All off) ,<br>04H (Panel LED returns to normal operation) |
| 00000000 | 00          |                                                                                                                                |
| 0nnnnnnn | NN          | LED No.                                                                                                                        |
| 11110111 | F7          | End of Exclusive                                                                                                               |

Remotely switches the Panel LED On/Off.

## (3-6-4-4) PANEL VOICE SETTING (Receive only)

| binary   | hexadecimal |                                                                |
|----------|-------------|----------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                               |
| 01000011 | 43          | YAMAHA ID                                                      |
| 01110011 | 73          | Clavinova ID                                                   |
| 01000101 | 01          | Clavinova common ID                                            |
| 00100010 | 22          | Piano Live Exclusive Substatus                                 |
| 00000000 | 00          | Panel Voice Setting Substatus                                  |
| 0000nnnn | 0n          | Panel Part No.<br>00H (RIGHT 1)<br>01H (RIGHT 2)<br>02H (LEFT) |
| 0mmmmmm  | mm          | Bank Select MSB                                                |
| 01111111 | 11          | Bank Select LSB                                                |
| 0ppppppp | pp          | Program Change                                                 |
| 11110111 | F7          | End of Exclusive                                               |

## (3-6-4-5) PANEL VOICE VOLUME SETTING (Receive only)

| binary   | hexadecimal |                                                                |
|----------|-------------|----------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                               |
| 01000011 | 43          | YAMAHA ID                                                      |
| 01110011 | 73          | Clavinova ID                                                   |
| 01000101 | 01          | Clavinova common ID                                            |
| 00100010 | 22          | Piano Live Exclusive Substatus                                 |
| 00000001 | 01          | Panel Voice Volume Setting Substatus                           |
| 0000nnnn | 0n          | Panel Part No.<br>00H (RIGHT 1)<br>01H (RIGHT 2)<br>02H (LEFT) |
| 0vvvvvvv | vv          | Value (0 - 7FH)                                                |
| 11110111 | F7          | End of Exclusive                                               |

## (3-6-4-6) PANEL VOICE REVERB DEPTH SETTING (Receive only)

| binary   | hexadecimal |                                                                |
|----------|-------------|----------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                               |
| 01000011 | 43          | YAMAHA ID                                                      |
| 01110011 | 73          | Clavinova ID                                                   |
| 01000101 | 01          | Clavinova common ID                                            |
| 00100010 | 22          | Piano Live Exclusive Substatus                                 |
| 00000010 | 02          | Panel Voice Reverb Depth Setting Substatus                     |
| 0000nnnn | 0n          | Panel Part No.<br>00H (RIGHT 1)<br>01H (RIGHT 2)<br>02H (LEFT) |
| 0vvvvvvv | vv          | Value (0 - 7FH)                                                |
| 11110111 | F7          | End of Exclusive                                               |

## (3-6-4-7) PANEL VOICE EFFECT DEPTH SETTING (Receive only)

| binary   | hexadecimal |                                                                |
|----------|-------------|----------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                               |
| 01000011 | 43          | YAMAHA ID                                                      |
| 01110011 | 73          | Clavinova ID                                                   |
| 01000101 | 01          | Clavinova common ID                                            |
| 00100010 | 22          | Piano Live Exclusive Substatus                                 |
| 00000011 | 03          | Panel Voice Effect Depth Setting Substatus                     |
| 0000nnnn | 0n          | Panel Part No.<br>00H (RIGHT 1)<br>01H (RIGHT 2)<br>02H (LEFT) |
| 0vvvvvvv | vv          | Value (0 - 7FH)                                                |
| 11110111 | F7          | End of Exclusive                                               |

## (3-6-4-8) MIDI FA CANCEL (Receive only)

| binary   | hexadecimal |                     |
|----------|-------------|---------------------|
| 11110000 | F0          | Exclusive status    |
| 01000011 | 43          | YAMAHA ID           |
| 01110011 | 73          | Clavinova ID        |
| 01000101 | 01          | Clavinova common ID |
| 01100001 | 61          | MIDI FA Cancel      |
| 11110111 | F7          | End of Exclusive    |

If this message is received, even if FAH is received the Rhythm will not start.

## (3-6-5) SPECIAL OPERATORS

### (3-6-5-1) SPLIT POINT

| binary   | hexadecimal |                     |
|----------|-------------|---------------------|
| 11110000 | F0          | Exclusive status    |
| 01000011 | 43          | YAMAHA ID           |
| 01110011 | 73          | Clavinova ID        |
| 01000101 | 01          | Clavinova common ID |
| 00010001 | 11          | Sub ID              |
| 00000000 | 00          |                     |
| 00010100 | 14          | Split Point         |
| 0ddddd   | DD          | Split Key No.       |
| 11110111 | F7          | End of Exclusive    |

### (3-6-5-2) STYLE NUMBER

| binary   | hexadecimal |                         |
|----------|-------------|-------------------------|
| 11110000 | F0          | Exclusive status        |
| 01000011 | 43          | YAMAHA ID               |
| 01110011 | 73          | Clavinova ID            |
| 01011010 | 35          | CVP-202 ID              |
| 00010001 | 11          | Sub ID                  |
| 00000000 | 00          | Channel No. (always 00) |
| 00010110 | 16          | Style No. Control No.   |
| 0mmmmmm  | mm          | Style No. MSB           |
| 01111111 | 11          | Style No. LSB           |
| 11110111 | F7          | End of Exclusive        |

### (3-6-5-3) FINGERING

| binary   | hexadecimal |                                                                                                                            |
|----------|-------------|----------------------------------------------------------------------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                                                                                           |
| 01000011 | 43          | YAMAHA ID                                                                                                                  |
| 01110011 | 73          | Clavinova ID                                                                                                               |
| 01000101 | 01          | Clavinova common ID                                                                                                        |
| 00010001 | 11          | Sub ID                                                                                                                     |
| 00000000 | 00          |                                                                                                                            |
| 01000000 | 40          | Fingering                                                                                                                  |
| 0000dddd | 0D          | 0D: 00H (Off) , 01H (Single Finger) ,<br>02H (Fingered 1) , 03H (Fingered 2) ,<br>04H (Full Keyboard) , 07H (Multi Finger) |
| 11110111 | F7          | End of Exclusive                                                                                                           |

### (3-6-5-4) ACCOMP VOLUME

| binary   | hexadecimal |                                                                                              |
|----------|-------------|----------------------------------------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                                                             |
| 01000011 | 43          | YAMAHA ID                                                                                    |
| 01110011 | 73          | Clavinova ID                                                                                 |
| 01000101 | 01          | Clavinova common ID                                                                          |
| 00010001 | 11          | Sub ID                                                                                       |
| 0000nnnn | 0N          | Part: 00H (All Part) , 05H (Rhythm) , 0AH (Bass) ,<br>06H (Chord) , 0DH (Pad) , 07H (Phrase) |
| 01000000 | 42          | Accomp Volume                                                                                |
| 0ddddd   | DD          | Volume Data: 00H-7FH                                                                         |
| 11110111 | F7          | End of Exclusive                                                                             |

### (3-6-5-5) CHANNEL DETUNE

| binary   | hexadecimal |                                           |
|----------|-------------|-------------------------------------------|
| 11110000 | F0          | Exclusive status                          |
| 01000011 | 43          | YAMAHA ID                                 |
| 01110011 | 73          | Clavinova ID                              |
| 01000101 | 01          | Clavinova common ID                       |
| 00010001 | 11          | Sub ID                                    |
| 0000nnnn | 0N          | N = MIDI Channel                          |
| 01000011 | 43          | Dual Detune                               |
| 0vvvvvvv | VV          | Value VV: 00H - 40H - 7FH (-64 - 0 - +63) |
| 11110111 | F7          | End of Exclusive                          |

The Channel Detune message only affects the specified channel.

### (3-6-5-6) VOLUME ,EXPRESSION AND PAN REALTIME CONTROL OFF

| binary   | hexadecimal |                                            |
|----------|-------------|--------------------------------------------|
| 11110000 | F0          | Exclusive status                           |
| 01000011 | 43          | YAMAHA ID                                  |
| 01110011 | 73          | Clavinova ID                               |
| 01000101 | 01          | Clavinova common ID                        |
| 00010001 | 11          | Sub ID                                     |
| 0000nnnn | 0N          | N = MIDI Channel                           |
| 01001001 | 45          | Volume and Expression Realtime Control Off |
| 0vvvvvvv | VV          | Value VV: off=7FH, on=00H                  |
| 11110111 | F7          | End of Exclusive                           |

When “On” is received, subsequent volume, expression, and PAN changes are only valid after the reception of the next key on. Normal operation resumes when “Off” is received.

### (3-6-5-7) MIDI KEY LED MODE ON / OFF (Receive only)

| binary   | hexadecimal |                                                                                                |
|----------|-------------|------------------------------------------------------------------------------------------------|
| 11110000 | F0          | Exclusive status                                                                               |
| 01000011 | 43          | YAMAHA ID                                                                                      |
| 01110011 | 73          | Clavinova ID                                                                                   |
| 01000101 | 01          | Clavinova common ID                                                                            |
| 00010001 | 11          | Sub ID                                                                                         |
| 0000nnnn | 0N          | N = MIDI Channel                                                                               |
| 01000111 | 47          | MIDI Key LED Mode On / Off                                                                     |
| 0ddddd   | DD          | DD: 00H(Key LED Mode Off) ,<br>01H(Key LED Mode On + no tone) ,<br>02H(Key LED Mode On + tone) |
| 11110111 | F7          | End of Exclusive                                                                               |

### (3-6-6) Others

#### (3-6-6-1) MIDI MASTER TUNING (Receive only)

| binary    | hexadecimal |                                                     |
|-----------|-------------|-----------------------------------------------------|
| 11110000  | F0          | Exclusive status                                    |
| 01000011  | 43          | YAMAHA ID                                           |
| 0001nnnn  | 1N          | When N is received N=0-F,<br>whichever is received. |
| 00100111  | 27          | Model ID                                            |
| 00110000  | 30          | Sub ID                                              |
| 00000000  | 00          |                                                     |
| 00000000  | 00          |                                                     |
| 0mmmmmmmm | MM          | Master Tune MSB                                     |
| 01111111  | LL          | Master Tune LSB                                     |
| 0ccccccc  | CC          | don't care                                          |
| 11110111  | F7          | End of Exclusive                                    |

Changes tuning of all channels.

MM, LL values are used to define the MIDI Master Tuning value.

$T = M - 128$

T: Tuning value (-99 cents to +99 cents)

M: A single byte value (28–228) that consists of bits 0–3 of MM as MSB, bits 0–3 of LL as LSB.

This setting is not reset when the GM System or XG System is turned on.

# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI ●●●

< Table 1-1 >

| Parameter Basic Address |  |  | Parameter Change Address |         | Description                          |                |
|-------------------------|--|--|--------------------------|---------|--------------------------------------|----------------|
|                         |  |  | (H)                      | (M) (L) |                                      |                |
| SYSTEM                  |  |  | 00                       | 00 00   | System                               |                |
|                         |  |  | 00                       | 00 7D   | Drum Setup Reset                     |                |
|                         |  |  | 00                       | 00 7E   | XG System On                         |                |
|                         |  |  | 00                       | 00 7F   | All Parameter Reset                  |                |
| INFORMATION             |  |  | 01                       | 00 00   | System Information                   |                |
| EFFECT 1                |  |  | 02                       | 01 00   | Effect1 (Reverb, Chorus, Variation ) |                |
| MULTI PART              |  |  | 08                       | 00 00   | Multi Part 1                         |                |
|                         |  |  |                          | :       |                                      |                |
|                         |  |  | 08                       | 0F 00   | Multi Part 16                        |                |
| DRUM                    |  |  | 30                       | 0D 00   | Drum Setup 1                         | —————→ Address |
|                         |  |  | 31                       | 0D 00   | Drum Setup 2                         | Parameter      |
|                         |  |  | 3n                       | 0D 00   | note number 13                       |                |
|                         |  |  | 3n                       | 0E 00   | note number 14                       |                |
|                         |  |  | :                        | :       |                                      |                |
|                         |  |  | 3n                       | 5B 00   | note number 91                       |                |

< Table 1-2 >

MIDI Parameter Change table ( SYSTEM )

| Address (H) | Size (H) | Data (H)            | Parameter Name | Description            | Default Value (H) |
|-------------|----------|---------------------|----------------|------------------------|-------------------|
| 00 00 00    | 4        | 0000                | Master Tune    | -102.4...+102.3 [cent] | 00 04 00 00       |
| 01          |          | ..07FF              |                | 1st bit3-0 -> bit15-12 | (0400)            |
| 02          |          |                     |                | 2nd bit3-0 -> bit11-8  |                   |
| 03          |          |                     |                | 3rd bit3-0 -> bit7-4   |                   |
|             |          |                     |                | 4th bit3-0 -> bit3-0   |                   |
| 04 1        | 00..7F   | Master Volume       |                | 0..127                 | 7F                |
| 05 1        |          | Not Used            |                |                        |                   |
| 06 1        | 28..58   | Transpose           |                | -24...+24 [semitones]  | 40                |
| 7D n        |          | Drum Setup Reset    |                | n=Drum Setup Number    |                   |
| 7E 00       |          | XG System On        |                | 00=XG Sytem on         |                   |
| 7F 00       |          | All Parameter Reset |                | 00=on (receive only)   |                   |
| TOTAL SIZE  | 6        |                     |                |                        |                   |

< Table 1-3 >

MIDI Parameter table ( System information )

| Address (H) | Size (H) | Data (H) | Parameter Name | Description      |
|-------------|----------|----------|----------------|------------------|
| 01 00 00    | E        | 20..7F   | Model Name     | 32...127 (ASCII) |
| :           |          |          |                |                  |
| 0D          |          |          |                |                  |
| 0E 1        | 00       |          |                |                  |
| 0F 1        | 01       |          |                |                  |

TOTAL SIZE 10

(Transmitted by Dump Request. Not received. Bulk Dump Only)

< Table 1-4 >

MIDI Parameter Change table ( EFFECT 1 )

| Address (H) | Size (H) | Data (H)            | Parameter Name  | Description                     | Default Value (H)     |
|-------------|----------|---------------------|-----------------|---------------------------------|-----------------------|
| 02 01 00    | 2        | 00..7F              | Reverb Type MSB | Refer to the Effect Type List   | 01 (=HALL1)           |
|             |          | 00..7F              | Reverb Type LSB | 00 : basic type                 | 00                    |
| 02 1        | 00..7F   | Reverb Parameter 1  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 03 1        | 00..7F   | Reverb Parameter 2  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 04 1        | 00..7F   | Reverb Parameter 3  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 05 1        | 00..7F   | Reverb Parameter 4  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 06 1        | 00..7F   | Reverb Parameter 5  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 07 1        | 00..7F   | Reverb Parameter 6  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 08 1        | 00..7F   | Reverb Parameter 7  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 09 1        | 00..7F   | Reverb Parameter 8  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 0A 1        | 00..7F   | Reverb Parameter 9  |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 0B 1        | 00..7F   | Reverb Parameter 10 |                 | Refer to the Ef. Parameter List | Depend on Reverb type |
| 0C 1        | 00..7F   | Reverb Return       |                 | -∞...0...+6dB (0..96...127)     | 40                    |
| 0D 1        | 01..7F   | Reverb Pan          |                 | L63...C...R63 (1..64...127)     | 40                    |
| TOTAL SIZE  | 0E       |                     |                 |                                 |                       |

|               |    |    |   |        |                        |                                 |
|---------------|----|----|---|--------|------------------------|---------------------------------|
|               |    |    |   |        |                        |                                 |
| 02            | 01 | 10 | 1 | 00..7F | Reverb Parameter 11    | Refer to the Ef. Parameter List |
|               |    | 11 | 1 | 00..7F | Reverb Parameter 12    | Refer to the Ef. Parameter List |
|               |    | 12 | 1 | 00..7F | Reverb Parameter 13    | Refer to the Ef. Parameter List |
|               |    | 13 | 1 | 00..7F | Reverb Parameter 14    | Refer to the Ef. Parameter List |
|               |    | 14 | 1 | 00..7F | Reverb Parameter 15    | Refer to the Ef. Parameter List |
|               |    | 15 | 1 | 00..7F | Reverb Parameter 16    | Refer to the Ef. Parameter List |
| TOTAL SIZE 6  |    |    |   |        |                        |                                 |
| 02            | 01 | 20 | 2 | 00..7F | Chorus Type MSB        | Refer to the Effect Type List   |
|               |    |    |   | 00..7F | Chorus Type LSB        | 00 : basic type                 |
|               |    | 22 | 1 | 00..7F | Chorus Parameter 1     | Refer to the Ef. Parameter List |
|               |    | 23 | 1 | 00..7F | Chorus Parameter 2     | Refer to the Ef. Parameter List |
|               |    | 24 | 1 | 00..7F | Chorus Parameter 3     | Refer to the Ef. Parameter List |
|               |    | 25 | 1 | 00..7F | Chorus Parameter 4     | Refer to the Ef. Parameter List |
|               |    | 26 | 1 | 00..7F | Chorus Parameter 5     | Refer to the Ef. Parameter List |
|               |    | 27 | 1 | 00..7F | Chorus Parameter 6     | Refer to the Ef. Parameter List |
|               |    | 28 | 1 | 00..7F | Chorus Parameter 7     | Refer to the Ef. Parameter List |
|               |    | 29 | 1 | 00..7F | Chorus Parameter 8     | Refer to the Ef. Parameter List |
|               |    | 2A | 1 | 00..7F | Chorus Parameter 9     | Refer to the Ef. Parameter List |
|               |    | 2B | 1 | 00..7F | Chorus Parameter 10    | Refer to the Ef. Parameter List |
|               |    | 2C | 1 | 00..7F | Chorus Return          | -∞..0..+6dB(0..96..127)         |
|               |    | 2D | 1 | 01..7F | Chorus Pan             | L63..C..R63(1..64..127)         |
|               |    | 2E | 1 | 00..7F | Send Chorus To Reverb  | -∞..0..+6dB(0..96..127)         |
| TOTAL SIZE 0F |    |    |   |        |                        |                                 |
| 02            | 01 | 30 | 1 | 00..7F | Chorus Parameter 11    | Refer to the Ef. Parameter List |
|               |    | 31 | 1 | 00..7F | Chorus Parameter 12    | Refer to the Ef. Parameter List |
|               |    | 32 | 1 | 00..7F | Chorus Parameter 13    | Refer to the Ef. Parameter List |
|               |    | 33 | 1 | 00..7F | Chorus Parameter 14    | Refer to the Ef. Parameter List |
|               |    | 34 | 1 | 00..7F | Chorus Parameter 15    | Refer to the Ef. Parameter List |
|               |    | 35 | 1 | 00..7F | Chorus Parameter 16    | Refer to the Ef. Parameter List |
| TOTAL SIZE 6  |    |    |   |        |                        |                                 |
| 02            | 01 | 40 | 2 | 00..7F | Variation Type MSB     | Refer to the Effect Type List   |
|               |    |    |   | 00..7F | Variation Type LSB     | 00 : basic type                 |
|               |    | 42 | 2 | 00..7F | Vari. Param. 1 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 1 LSB     | Refer to the Ef. Parameter List |
|               |    | 44 | 2 | 00..7F | Vari. Param. 2 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 2 LSB     | Refer to the Ef. Parameter List |
|               |    | 46 | 2 | 00..7F | Vari. Param. 3 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 3 LSB     | Refer to the Ef. Parameter List |
|               |    | 48 | 2 | 00..7F | Vari. Param. 4 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 4 LSB     | Refer to the Ef. Parameter List |
|               |    | 4A | 2 | 00..7F | Vari. Param. 5 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 5 LSB     | Refer to the Ef. Parameter List |
|               |    | 4C | 2 | 00..7F | Vari. Param. 6 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 6 LSB     | Refer to the Ef. Parameter List |
|               |    | 4E | 2 | 00..7F | Vari. Param. 7 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 7 LSB     | Refer to the Ef. Parameter List |
|               |    | 50 | 2 | 00..7F | Vari. Param. 8 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 8 LSB     | Refer to the Ef. Parameter List |
|               |    | 52 | 2 | 00..7F | Vari. Param. 9 MSB     | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 9 LSB     | Refer to the Ef. Parameter List |
|               |    | 54 | 2 | 00..7F | Vari. Param. 10 MSB    | Refer to the Ef. Parameter List |
|               |    |    |   | 00..7F | Vari. Param. 10 LSB    | Refer to the Ef. Parameter List |
|               |    | 56 | 1 | 00..7F | Variation Return       | -∞..0..+6dB(0..96..127)         |
|               |    | 57 | 1 | 01..7F | Variation Pan          | L63..C..R63(1..64..127)         |
|               |    | 58 | 1 | 00..7F | Send Vari. To Reverb   | -∞..0..+6dB(0..96..127)         |
|               |    | 59 | 1 | 00..7F | Send Vari. To Chorus   | -∞..0..+6dB(0..96..127)         |
|               |    | 5A | 1 | 00..01 | Variation Connection   | 0:insertion,1:system            |
|               |    | 5B | 1 | 00..1F | Variation Part         | part1..32(0..31),off(127)       |
|               |    | 5C | 1 | 01..7F | MW Vari. Ctrl Depth    | -63..+63                        |
|               |    | 5D | 1 | 01..7F | PB Vari. Ctrl Depth    | -63..+63                        |
|               |    | 5E | 1 | 01..7F | CAT Vari. Ctrl Depth   | -63..+63                        |
|               |    | 5F | 1 | 01..7F | Not Used               |                                 |
|               |    | 60 | 1 | 01..7F | Not Used               |                                 |
| TOTAL SIZE 21 |    |    |   |        |                        |                                 |
| 02            | 01 | 70 | 1 | 00..7F | Variation Parameter 11 | option Parameter                |
|               |    | 71 | 1 | 00..7F | Variation Parameter 12 | option Parameter                |
|               |    | 72 | 1 | 00..7F | Variation Parameter 13 | option Parameter                |
|               |    | 73 | 1 | 00..7F | Variation Parameter 14 | option Parameter                |
|               |    | 74 | 1 | 00..7F | Variation Parameter 15 | option Parameter                |
|               |    | 75 | 1 | 00..7F | Variation Parameter 16 | option Parameter                |
| TOTAL SIZE 6  |    |    |   |        |                        |                                 |

# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI ●●●

< Table 1-5 >

MIDI Parameter Change table ( MULTI PART )

| Address<br>(H) |    | Size<br>(H) | Data<br>(H) | Parameter Name | Description                                      | Default<br>Value (H)                     |
|----------------|----|-------------|-------------|----------------|--------------------------------------------------|------------------------------------------|
| 08             | nn | 00          | 1           | 00..20         | Element Reserve                                  | 0..32                                    |
|                | nn | 01          | 1           | 00..7F         | Bank Select MSB                                  | 0..127                                   |
|                | nn | 02          | 1           | 00..7F         | Bank Select LSB                                  | 0..127                                   |
|                | nn | 03          | 1           | 00..7F         | Program Number                                   | 1..128                                   |
|                | nn | 04          | 1           | 00..0F, 7F     | Rcv Channel                                      | 0..16;1..16,127;off                      |
|                | nn | 05          | 1           | 00..01         | Mono/Poly Mode                                   | 0:mono,1:poly                            |
|                | nn | 06          | 1           | 00..02         | Same Note Number<br>Key On Assign                | 0:single<br>1:multi<br>2:inst (for DRUM) |
|                | nn | 07          | 1           | 00..02         | Part Mode                                        | 0:normal<br>1..3:drum thru,drum1..2      |
|                | nn | 08          | 1           | 28..58         | Note Shift                                       | -24..+24[semitones]                      |
|                | nn | 09          | 2           | 00..FF         | Detune                                           | -12.8..+12.7[Hz]                         |
|                | nn | 0A          |             |                | 1st bit3..0 -> bit7..4<br>2nd bit3..0 -> bit3..0 | 08 00<br>(80)                            |
|                | nn | 0B          | 1           | 00..7F         | Volume                                           | 0..127                                   |
|                | nn | 0C          | 1           | 00..7F         | Velocity Sense Depth                             | 0..127                                   |
|                | nn | 0D          | 1           | 00..7F         | Velocity Sense Offset                            | 0..127                                   |
|                | nn | 0E          | 1           | 00..7F         | Pan                                              | 0:random<br>L63..C..R63(1..64..127)      |
|                | nn | 0F          | 1           | 00..7F         | Note Limit Low                                   | C-2..G8                                  |
|                | nn | 10          | 1           | 00..7F         | Note Limit High                                  | C-2..G8                                  |
|                | nn | 11          | 1           | 00..7F         | Dry Level                                        | 0..127                                   |
|                | nn | 12          | 1           | 00..7F         | Chorus Send                                      | 0..127                                   |
|                | nn | 13          | 1           | 00..7F         | Reverb Send                                      | 0..127                                   |
|                | nn | 14          | 1           | 00..7F         | Variation Send                                   | 0..127                                   |
|                | nn | 15          | 1           | 00..7F         | Vibrato Rate                                     | -64..+63                                 |
|                | nn | 16          | 1           | 00..7F         | Vibrato Depth                                    | -64..+63                                 |
|                | nn | 17          | 1           | 00..7F         | Vibrato Delay                                    | -64..+63                                 |
|                | nn | 18          | 1           | 00..7F         | Filter Cutoff Freq.                              | -64..+63                                 |
|                | nn | 19          | 1           | 00..7F         | Filter Resonance                                 | -64..+63                                 |
|                | nn | 1A          | 1           | 00..7F         | EG Attack Time                                   | -64..+63                                 |
|                | nn | 1B          | 1           | 00..7F         | EG Decay Time                                    | -64..+63                                 |
|                | nn | 1C          | 1           | 00..7F         | EG Release Time                                  | -64..+63                                 |
|                | nn | 1D          | 1           | 28..58         | MW Pitch Control                                 | -24..+24[semitones]                      |
|                | nn | 1E          | 1           | 00..7F         | MW Filter Control                                | -9600..+9450[cent]                       |
|                | nn | 1F          | 1           | 00..7F         | MW Amp. Control                                  | -100..+100[%]                            |
|                | nn | 20          | 1           | 00..7F         | MW LFO PMod Depth                                | 0..127                                   |
|                | nn | 21          | 1           | 00..7F         | MW LFO FMod Depth                                | 0..127                                   |
|                | nn | 22          | 1           | 00..7F         | MW LFO AMod Depth                                | 0..127                                   |
|                | nn | 23          | 1           | 28..58         | Bend Pitch Control                               | -24..+24[semitones]                      |
|                | nn | 24          | 1           | 00..7F         | Bend Filter Control                              | -9600..+9450[cent]                       |
|                | nn | 25          | 1           | 00..7F         | Bend Amp. Control                                | -100..+100[%]                            |
|                | nn | 26          | 1           | 00..7F         | Bend LFO PMod Depth                              | 0..127                                   |
|                | nn | 27          | 1           | 00..7F         | Bend LFO FMod Depth                              | 0..127                                   |
|                | nn | 28          | 1           | 00..7F         | Bend LFO AMod Depth                              | 0..127                                   |
| TOTAL SIZE     |    | 29          |             |                |                                                  |                                          |
|                | nn | 30          | 1           |                | Not Used                                         |                                          |
|                | :  | :           |             | :              |                                                  |                                          |
|                | nn | 40          | 1           |                | Not Used                                         |                                          |
|                | nn | 41          | 1           | 00..7F         | Scale Tuning C                                   | -64..+63[cent]                           |
|                | nn | 42          | 1           | 00..7F         | Scale Tuning C#                                  | -64..+63[cent]                           |
|                | nn | 43          | 1           | 00..7F         | Scale Tuning D                                   | -64..+63[cent]                           |
|                | nn | 44          | 1           | 00..7F         | Scale Tuning D#                                  | -64..+63[cent]                           |
|                | nn | 45          | 1           | 00..7F         | Scale Tuning E                                   | -64..+63[cent]                           |
|                | nn | 46          | 1           | 00..7F         | Scale Tuning F                                   | -64..+63[cent]                           |
|                | nn | 47          | 1           | 00..7F         | Scale Tuning F#                                  | -64..+63[cent]                           |
|                | nn | 48          | 1           | 00..7F         | Scale Tuning G                                   | -64..+63[cent]                           |
|                | nn | 49          | 1           | 00..7F         | Scale Tuning G#                                  | -64..+63[cent]                           |
|                | nn | 4A          | 1           | 00..7F         | Scale Tuning A                                   | -64..+63[cent]                           |
|                | nn | 4B          | 1           | 00..7F         | Scale Tuning A#                                  | -64..+63[cent]                           |
|                | nn | 4C          | 1           | 00..7F         | Scale Tuning B                                   | -64..+63[cent]                           |
|                | nn | 4D          | 1           | 28..58         | CAT Pitch Control                                | -24..+24[semitones]                      |
|                | nn | 4E          | 1           | 00..7F         | CAT Filter Control                               | -9600..+9450[cent]                       |
|                | nn | 4F          | 1           | 00..7F         | CAT Amplitude Control                            | -100..+100[%]                            |
|                | nn | 50          | 1           | 00..7F         | CAT LFO PMod Depth                               | 0..127                                   |

|               |    |    |        |                    |            |    |
|---------------|----|----|--------|--------------------|------------|----|
| nn            | 51 | 1  | 00..7F | CAT LFO FMod Depth | 0..127     | 00 |
| nn            | 52 | 1  | 00..7F | CAT LFO AMod Depth | 0..127     | 00 |
| nn            | 53 |    |        | Not Used           |            |    |
|               | :  |    |        | :                  |            |    |
|               | 66 |    |        | Not Used           |            |    |
| nn            | 67 | 1  | 00..01 | Portamento Switch  | off/on     | 00 |
| nn            | 68 | 1  | 00..7F | Portamento Time    | 0..127     | 00 |
| nn            | 69 |    |        | Not Used           |            |    |
|               | :  |    |        | :                  |            |    |
|               | 6E |    |        | Not Used           |            |    |
| TOTAL SIZE 3F |    |    |        |                    |            |    |
| 08            | nn | 70 | 1      | Not Used           | Don't care |    |
|               | nn | 71 | 1      | Not Used           | Don't care |    |
|               | nn | 72 | 1      | Not Used           | Don't care |    |
|               | nn | 73 | 1      | Not Used           | Don't care |    |
| TOTAL SIZE 04 |    |    |        |                    |            |    |
| 08            | nn | 74 | 1      | Not Used           | Don't care |    |
|               |    | 75 | 1      | Not Used           | Don't care |    |
|               |    | 76 | 1      | Not Used           | Don't care |    |
|               |    | 77 | 1      | Not Used           | Don't care |    |
|               |    | 78 | 1      | Not Used           | Don't care |    |
|               |    | 79 | 1      | Not Used           | Don't care |    |
|               |    | 7A | 1      | Not Used           | Don't care |    |
|               |    | 7B | 1      | Not Used           | Don't care |    |
|               |    | 7C | 1      | Not Used           | Don't care |    |
|               |    | 7D | 1      | Not Used           | Don't care |    |
|               |    | 7E | 1      | Not Used           | Don't care |    |
|               |    | 7F | 1      | Not Used           | Don't care |    |
| TOTAL SIZE 0C |    |    |        |                    |            |    |

nn = PartNumber

If there is a Drum Voice assigned to the Part, the following parameters are ineffective.

- Bank Select LSB
- Pitch EG
- Portamento
- Soft Pedal
- Mono/Poly
- Scale Tuning

## <Table 1-6 >

**MIDI Parameter Change table ( DRUM SETUP )**

| Address (H)   | Size (H) | Data (H) | Parameter Name (H) | Description                 | Default Value (H)                    |
|---------------|----------|----------|--------------------|-----------------------------|--------------------------------------|
| 3n            | rr       | 00       | 1                  | 00..7F Pitch Coarse         | -64..+63                             |
| 3n            | rr       | 01       | 1                  | 00..7F Pitch Fine           | -64..+63[cent]                       |
| 3n            | rr       | 02       | 1                  | 00..7F Level                | 0..127                               |
| 3n            | rr       | 03       | 1                  | 00..7F Alternate Group      | 0:off,1..127                         |
| 3n            | rr       | 04       | 1                  | 00..7F Pan                  | 0:random<br>L63..C..R63 (1..64..127) |
| 3n            | rr       | 05       | 1                  | 00..7F Reverb Send Level    | 0..127                               |
| 3n            | rr       | 06       | 1                  | 00..7F Chorus Send Level    | 0..127                               |
| 3n            | rr       | 07       | 1                  | 00..7F Variation Send Level | 0..127                               |
| 3n            | rr       | 08       | 1                  | 00..01 Key Assign           | 0:single,1:multi                     |
| 3n            | rr       | 09       | 1                  | 00..01 Rcv Note Off         | off/on                               |
| 3n            | rr       | 0A       | 1                  | 00..01 Rcv Note On          | off/on                               |
| 3n            | rr       | 0B       | 1                  | 00..7F Filter Cutoff Freq.  | -64..63                              |
| 3n            | rr       | 0C       | 1                  | 00..7F Filter Resonance     | -64..63                              |
| 3n            | rr       | 0D       | 1                  | 00..7F EG Attack Rate       | -64..63                              |
| 3n            | rr       | 0E       | 1                  | 00..7F EG Decay1 Rate       | -64..63                              |
| 3n            | rr       | 0F       | 1                  | 00..7F EG Decay2 Rate       | -64..63                              |
| TOTAL SIZE 10 |          |          |                    |                             |                                      |

n:Drum Setup Number(0 - 1)

rr:note number(0DH - 5BH)

If XG SYSTEM ON and/or GM SYSTEM ON message is received, all Drum Setup Parameter will be reset to default values.

According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

# Effect Type List / Liste der Effekttypen / Liste des types d'effet / Lista de tipos de efecto.....

Reverb Type List

| Type       | MSB # | LSB # |
|------------|-------|-------|
| HALL1      | 1     | 0     |
| HALL2      | 1     | 16    |
| HALL3      | 1     | 17    |
| HALL4      | 1     | 18    |
| HALL5      | 1     | 1     |
| ROOM1      | 2     | 16    |
| ROOM2      | 2     | 17    |
| ROOM3      | 2     | 18    |
| ROOM4      | 2     | 19    |
| ROOM5      | 2     | 0     |
| ROOM6      | 2     | 1     |
| ROOM7      | 2     | 2     |
| STAGE1     | 3     | 16    |
| STAGE2     | 3     | 17    |
| STAGE3     | 3     | 0     |
| STAGE4     | 3     | 1     |
| PLATE1     | 4     | 16    |
| PLATE2     | 4     | 17    |
| PLATE3     | 4     | 0     |
| WHITE ROOM | 16    | 0     |
| TUNNEL     | 17    | 0     |
| CANYON     | 18    | 0     |
| BASEMENT   | 19    | 0     |

Chorus Type List

| Type     | MSB # | LSB # |
|----------|-------|-------|
| CHORUS1  | 66    | 17    |
| CHORUS2  | 66    | 8     |
| CHORUS3  | 66    | 16    |
| CHORUS4  | 66    | 1     |
| CHORUS5  | 65    | 2     |
| CHORUS6  | 65    | 0     |
| CHORUS7  | 65    | 1     |
| CHORUS8  | 65    | 8     |
| CELESTE1 | 66    | 0     |
| CELESTE2 | 66    | 2     |
| FLANGER1 | 67    | 8     |
| FLANGER2 | 67    | 16    |
| FLANGER3 | 67    | 17    |
| FLANGER4 | 67    | 1     |
| FLANGER5 | 67    | 0     |

Effect Type List

| Type        | MSB # | LSB # |
|-------------|-------|-------|
| HALL1       | 1     | 0     |
| HALL2       | 1     | 16    |
| HALL3       | 1     | 17    |
| HALL4       | 1     | 18    |
| HALL5       | 1     | 1     |
| ROOM1       | 2     | 16    |
| ROOM2       | 2     | 17    |
| ROOM3       | 2     | 18    |
| ROOM4       | 2     | 19    |
| ROOM5       | 2     | 0     |
| ROOM6       | 2     | 1     |
| ROOM7       | 2     | 2     |
| STAGE1      | 3     | 16    |
| STAGE2      | 3     | 17    |
| STAGE3      | 3     | 0     |
| STAGE4      | 3     | 1     |
| PLATE1      | 4     | 16    |
| PLATE2      | 4     | 17    |
| PLATE3      | 4     | 0     |
| ER1         | 9     | 0     |
| ER2         | 9     | 1     |
| GATE REVERB | 10    | 0     |
| REVERS GATE | 11    | 0     |
| KARAOKE1    | 20    | 0     |
| KARAOKE2    | 20    | 1     |
| KARAOKE3    | 20    | 2     |
| CHORUS1     | 66    | 17    |
| CHORUS2     | 66    | 8     |
| CHORUS3     | 66    | 16    |
| CHORUS4     | 66    | 1     |
| CHORUS5     | 65    | 2     |
| CHORUS6     | 65    | 0     |
| CHORUS7     | 65    | 1     |
| CHORUS8     | 65    | 8     |
| CELESTE1    | 66    | 0     |
| CELESTE2    | 66    | 2     |
| FLANGER1    | 67    | 8     |
| FLANGER2    | 67    | 16    |
| FLANGER3    | 67    | 17    |
| FLANGER4    | 67    | 1     |
| FLANGER5    | 67    | 0     |
| SYMPHONIC1  | 68    | 16    |
| SYMPHONIC2  | 68    | 0     |
| PHASER1     | 72    | 0     |
| PHASER2     | 72    | 8     |
| EP PHASER1  | 72    | 17    |
| EP PHASER2  | 72    | 16    |

| Type                           | MSB # | LSB # |
|--------------------------------|-------|-------|
| ROTARY SP1                     | 69    | 16    |
| ROTARY SP2                     | 71    | 17    |
| ROTARY SP3                     | 71    | 18    |
| ROTARY SP4                     | 70    | 17    |
| ROTARY SP5                     | 66    | 18    |
| ROTARY SP6                     | 69    | 0     |
| ROTARY SP7                     | 71    | 22    |
| ROTARY SP8                     | 69    | 17    |
| ROTARY SP9                     | 66    | 19    |
| ROTARY SP10                    | 71    | 25    |
| TREMOLO1                       | 70    | 16    |
| TREMOLO2                       | 71    | 19    |
| TREMOLO3                       | 70    | 0     |
| TREMOLO4                       | 70    | 20    |
| GT TREMOLO1                    | 71    | 20    |
| EP TREMOLO                     | 70    | 18    |
| EP TREMOLO2                    | 70    | 21    |
| AUTO PAN1                      | 71    | 16    |
| AUTO PAN2                      | 71    | 0     |
| AUTO PAN3                      | 71    | 23    |
| EP AUTOPAN                     | 71    | 21    |
| EP AUTOPAN2                    | 71    | 24    |
| AUTO WAH1                      | 78    | 16    |
| AUTO WAH2                      | 78    | 0     |
| AUTO WAH3                      | 78    | 19    |
| AUTO WAH4                      | 78    | 20    |
| DELAY LCR1                     | 5     | 16    |
| DELAY LCR2                     | 5     | 0     |
| DELAY LR                       | 6     | 0     |
| ECHO                           | 7     | 0     |
| CROSS DELAY                    | 8     | 0     |
| DIST HARD<br>(DISTORTION HARD) | 75    | 16    |
| DIST HARD2                     | 75    | 22    |
| DIST HARD3                     | 75    | 25    |
| DIST SOFT<br>(DISTORTION SOFT) | 75    | 17    |
| DIST SOFT2                     | 75    | 23    |
| DIST HEAVY                     | 73    | 0     |
| OVERDRIVE                      | 74    | 0     |
| AMP SIM<br>(AMP SIMULATOR)     | 75    | 0     |
| ST AMP2                        | 75    | 21    |
| ST AMP3                        | 75    | 24    |
| EQ DISCO                       | 76    | 16    |
| EQ TEL                         | 76    | 17    |
| 2BAND EQ                       | 77    | 0     |
| 3BAND EQ                       | 76    | 0     |

# Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos •••

If a table has no LSB number specified, the table applies for any LSB numbers.

Parameters marked with a ● in the Control column can be controlled from an AC1 (assignable controller 1) etc. However, this is valid only for a Variation effect (when selected for Insertion).

MSB = 1

MSB = 2

MSB = 3

MSB = 4

| No. | Parameter       | Display             | Value   | See Table | Control |
|-----|-----------------|---------------------|---------|-----------|---------|
| 1   | Reverb Time     | 0.3 – 30.0s         | 0 – 69  | table#4   |         |
| 2   | Diffusion       | 0 – 10              | 0 – 10  |           |         |
| 3   | Initial Delay   | 0.1mS – 99.3mS      | 0 – 63  | table#5   |         |
| 4   | HPF Cutoff      | Thru – 8.0kHz       | 0 – 52  | table#3   |         |
| 5   | LPF Cutoff      | 1.0k – Thru         | 34 – 60 | table#3   |         |
| 6   |                 |                     |         |           |         |
| 7   |                 |                     |         |           |         |
| 8   |                 |                     |         |           |         |
| 9   |                 |                     |         |           |         |
| 10  | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 |           | ●       |
| 11  | Rev Delay       | 0.1mS – 99.3mS      | 0 – 63  | table#5   |         |
| 12  | Density         | 0 – 4 (rev, var)    | 0 – 4   |           |         |
| 13  | Er/Rev Balance  | E63>R – E=R – E<R63 | 1 – 127 |           |         |
| 14  |                 |                     |         |           |         |
| 15  | Feedback Level  | -63 – +63           | 1 – 127 |           |         |
| 16  |                 |                     |         |           |         |

MSB = 5

| No. | Parameter         | Display             | Value    | See Table | Control |
|-----|-------------------|---------------------|----------|-----------|---------|
| 1   | Lch Delay         | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 2   | Rch Delay         | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 3   | Cch Delay         | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 4   | Feedback Delay    | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 5   | Feedback Level    | -63 – +63           | 1 – 127  |           |         |
| 6   | Cch Level         | 0 – 127             | 0 – 127  |           |         |
| 7   | High Damp         | 0.1 – 1.0           | 1 – 10   |           |         |
| 8   |                   |                     |          |           |         |
| 9   |                   |                     |          |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63 | 1 – 127  |           | ●       |
| 11  |                   |                     |          |           |         |
| 12  |                   |                     |          |           |         |
| 13  | EQ Low Frequency  | 32Hz – 2.0kHz       | 4 – 40   | table#3   |         |
| 14  | EQ Low Gain       | -12 – +12dB         | 52 – 76  |           |         |
| 15  | EQ High Frequency | 500Hz – 16.0kHz     | 28 – 58  | table#3   |         |
| 16  | EQ High Gain      | -12 – +12dB         | 52 – 76  |           |         |

MSB = 6

| No. | Parameter         | Display             | Value    | See Table | Control |
|-----|-------------------|---------------------|----------|-----------|---------|
| 1   | Lch Delay         | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 2   | Rch Delay         | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 3   | Feedback Delay 1  | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 4   | Feedback Delay 2  | 0.1 – 715.0ms       | 1 – 7150 |           |         |
| 5   | Feedback Level    | -63 – +63           | 1 – 127  |           |         |
| 6   | High Damp         | 0.1 – 1.0           | 1 – 10   |           |         |
| 7   |                   |                     |          |           |         |
| 8   |                   |                     |          |           |         |
| 9   |                   |                     |          |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63 | 1 – 127  |           | ●       |
| 11  |                   |                     |          |           |         |
| 12  |                   |                     |          |           |         |
| 13  | EQ Low Frequency  | 32Hz – 2.0kHz       | 4 – 40   | table#3   |         |
| 14  | EQ Low Gain       | -12 – +12dB         | 52 – 76  |           |         |
| 15  | EQ High Frequency | 500Hz – 16.0kHz     | 28 – 58  | table#3   |         |
| 16  | EQ High Gain      | -12 – +12dB         | 52 – 76  |           |         |

MSB = 7

| No. | Parameter          | Display             | Value    | See Table | Control |
|-----|--------------------|---------------------|----------|-----------|---------|
| 1   | Lch Delay1         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 2   | Lch Feedback Level | -63 – +63           | 1 – 127  |           |         |
| 3   | Rch Delay1         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 4   | Rch Feedback Level | -63 – +63           | 1 – 127  |           |         |
| 5   | High Damp          | 0.1 – 1.0           | 1 – 10   |           |         |
| 6   | Lch Delay2         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 7   | Rch Delay2         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 8   | Delay2 Level       | 0 – 127             | 0 – 127  |           |         |
| 9   |                    |                     |          |           |         |
| 10  | Dry/Wet Balance    | D63>W – D=W – D<W63 | 1 – 127  |           | ●       |
| 11  |                    |                     |          |           |         |
| 12  |                    |                     |          |           |         |
| 13  | EQ Low Frequency   | 32Hz – 2.0kHz       | 4 – 40   | table#3   |         |
| 14  | EQ Low Gain        | -12 – +12dB         | 52 – 76  |           |         |
| 15  | EQ High Frequency  | 500Hz – 16.0kHz     | 28 – 58  | table#3   |         |
| 16  | EQ High Gain       | -12 – +12dB         | 52 – 76  |           |         |

MSB = 8

| No. | Parameter         | Display             | Value    | See Table | Control |
|-----|-------------------|---------------------|----------|-----------|---------|
| 1   | L→R Delay         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 2   | R→L Delay         | 0.1 – 355.0ms       | 1 – 3550 |           |         |
| 3   | Feedback Level    | -63 – +63           | 1 – 127  |           |         |
| 4   | Input Select      | L, R, L&R           | 0 – 2    |           |         |
| 5   | High Damp         | 0.1 – 1.0           | 1 – 10   |           |         |
| 6   |                   |                     |          |           |         |
| 7   |                   |                     |          |           |         |
| 8   |                   |                     |          |           |         |
| 9   |                   |                     |          |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63 | 1 – 127  |           | ●       |
| 11  |                   |                     |          |           |         |
| 12  |                   |                     |          |           |         |
| 13  | EQ Low Frequency  | 32Hz – 2.0kHz       | 4 – 40   | table#3   |         |
| 14  | EQ Low Gain       | -12 – +12dB         | 52 – 76  |           |         |
| 15  | EQ High Frequency | 500Hz – 16.0kHz     | 28 – 58  | table#3   |         |
| 16  | EQ High Gain      | -12 – +12dB         | 52 – 76  |           |         |

MSB = 9

| No. | Parameter       | Display                      | Value   | See Table | Control |
|-----|-----------------|------------------------------|---------|-----------|---------|
| 1   | Type            | S-H, L-H, Rdm, Rvs, Plt, Spr | 0 – 5   |           |         |
| 2   | Room Size       | 0.1 – 7.0                    | 0 – 44  | table#6   |         |
| 3   | Diffusion       | 0 – 10                       | 0 – 10  |           |         |
| 4   | Initial Delay   | 0.1mS – 200.0mS              | 0 – 127 | table#5   |         |
| 5   | Feedback Level  | -63 – +63                    | 1 – 127 |           |         |
| 6   | HPF Cutoff      | Thru – 8.0kHz                | 0 – 52  | table#3   |         |
| 7   | LPF Cutoff      | 1.0k – Thru                  | 34 – 60 | table#3   |         |
| 8   |                 |                              |         |           |         |
| 9   |                 |                              |         |           |         |
| 10  | Dry/Wet Balance | D63>W – D=W – D<W63          | 1 – 127 |           | ●       |
| 11  | Liveness        | 0 – 10                       | 0 – 10  |           |         |
| 12  | Density         | 0 – 3                        | 0 – 3   |           |         |
| 13  | High Damp       | 0.1 – 1.0                    | 1 – 10  |           |         |
| 14  |                 |                              |         |           |         |
| 15  |                 |                              |         |           |         |
| 16  |                 |                              |         |           |         |

# Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets /

MSB = 10  
MSB = 11

| No. | Parameter       | Display             | Value   | See Table | Control |
|-----|-----------------|---------------------|---------|-----------|---------|
| 1   | Type            | TypeA, TypeB        | 0 – 1   |           |         |
| 2   | Room Size       | 0.1 – 7.0           | 0 – 44  | table#6   |         |
| 3   | Diffusion       | 0 – 10              | 0 – 10  |           |         |
| 4   | Initial Delay   | 0.1mS – 200.0mS     | 0 – 127 | table#5   |         |
| 5   | Feedback Level  | -63 – +63           | 1 – 127 |           |         |
| 6   | HPF Cutoff      | Thru – 8.0kHz       | 0 – 52  | table#3   |         |
| 7   | LPF Cutoff      | 1.0k – Thru         | 34 – 60 | table#3   |         |
| 8   |                 |                     |         |           |         |
| 9   |                 |                     |         |           |         |
| 10  | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 |           | ●       |
| 11  | Liveness        | 0 – 10              | 0 – 10  |           |         |
| 12  | Density         | 0 – 3               | 0 – 3   |           |         |
| 13  | High Damp       | 0.1 – 1.0           | 1 – 10  |           |         |
| 14  |                 |                     |         |           |         |
| 15  |                 |                     |         |           |         |
| 16  |                 |                     |         |           |         |

MSB = 16  
MSB = 17  
MSB = 18  
MSB = 19

| No. | Parameter       | Display             | Value   | See Table | Control |
|-----|-----------------|---------------------|---------|-----------|---------|
| 1   | Reverb Time     | 0.3 – 30.0s         | 0 – 69  | table#4   |         |
| 2   | Diffusion       | 0 – 10              | 0 – 10  |           |         |
| 3   | Initial Delay   | 0.1mS – 99.3mS      | 0 – 63  | table#5   |         |
| 4   | HPF Cutoff      | Thru – 8.0kHz       | 0 – 52  | table#3   |         |
| 5   | LPF Cutoff      | 1.0k – Thru         | 34 – 60 | table#3   |         |
| 6   | Width           | 0.5 – 10.2m         | 0 – 37  | table#8   |         |
| 7   | Height          | 0.5 – 20.2m         | 0 – 73  | table#8   |         |
| 8   | Depth           | 0.5 – 30.2m         | 0 – 104 | table#8   |         |
| 9   | Wall Vary       | 0 – 30              | 0 – 30  |           |         |
| 10  | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 |           | ●       |
| 11  | Rev Delay       | 0.1mS – 99.3mS      | 0 – 63  | table#5   |         |
| 12  |                 |                     |         |           |         |
| 13  |                 |                     |         |           |         |
| 14  |                 |                     |         |           |         |
| 15  |                 |                     |         |           |         |
| 16  |                 |                     |         |           |         |

MSB = 20

| No. | Parameter       | Display             | Value   | See Table | Control |
|-----|-----------------|---------------------|---------|-----------|---------|
| 1   | Delay Time      | 0.1mS – 400.0mS     | 0 – 127 | table#7   |         |
| 2   | Feedback Level  | -63 – +63           | 1 – 127 |           |         |
| 3   | HPF Cutoff      | Thru – 8.0kHz       | 0 – 52  | table#3   |         |
| 4   | LPF Cutoff      | 1.0k – Thru         | 34 – 60 | table#3   |         |
| 5   |                 |                     |         |           |         |
| 6   |                 |                     |         |           |         |
| 7   |                 |                     |         |           |         |
| 8   |                 |                     |         |           |         |
| 9   |                 |                     |         |           |         |
| 10  | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 |           | ●       |
| 11  |                 |                     |         |           |         |
| 12  |                 |                     |         |           |         |
| 13  |                 |                     |         |           |         |
| 14  |                 |                     |         |           |         |
| 15  |                 |                     |         |           |         |
| 16  |                 |                     |         |           |         |

MSB = 65  
MSB = 66

| No. | Parameter             | Display             | Value    | See Table | Control |
|-----|-----------------------|---------------------|----------|-----------|---------|
| 1   | LFO Frequency         | 0.00Hz – 39.7Hz     | 0 – 127  | table#1   |         |
| 2   | LFO Depth             | 0 – 127             | 0 – 127  |           |         |
| 3   | Feedback Level        | -63 – +63           | 1 – 127  |           |         |
| 4   | Delay Offset          | 0.0mS – 50mS        | 0 – 127  | table#2   |         |
| 5   |                       |                     |          |           |         |
| 6   | EQ Low Frequency      | 32Hz – 2.0kHz       | 4 – 40   | table#3   |         |
| 7   | EQ Low Gain           | -12 – +12dB         | 52 – 76  |           |         |
| 8   | EQ High Frequency     | 500Hz – 16.0kHz     | 28 – 58  | table#3   |         |
| 9   | EQ High Gain          | -12 – +12dB         | 52 – 76  |           |         |
| 10  | Dry/Wet Balance       | D63>W – D=W – D<W63 | 1 – 127  |           | ●       |
| 11  | EQ Mid Frequency (*5) | 100Hz – 10.0kHz     | 14 – 54  | table#3   |         |
| 12  | EQ Mid Gain (*5)      | -12 – +12dB         | 52 – 76  |           |         |
| 13  | EQ Mid Width (*5)     | 1.0 – 12.0          | 10 – 120 |           |         |
| 14  |                       |                     |          |           |         |
| 15  | Input Mode            | mono/stereo         | 0 – 1    |           |         |
| 16  |                       |                     |          |           |         |

MSB = 67

| No. | Parameter            | Display                           | Value   | See Table | Control |
|-----|----------------------|-----------------------------------|---------|-----------|---------|
| 1   | LFO Frequency        | 0.00Hz – 39.7Hz                   | 0 – 127 | table#1   |         |
| 2   | LFO Depth            | 0 – 127                           | 0 – 127 |           |         |
| 3   | Feedback Level       | -63 – +63                         | 1 – 127 |           |         |
| 4   | Delay Offset         | 0.0mS – 50mS                      | 0 – 127 | table#2   |         |
| 5   |                      |                                   |         |           |         |
| 6   | EQ Low Frequency     | 32Hz – 2.0kHz                     | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain          | -12 – +12dB                       | 52 – 76 |           |         |
| 8   | EQ High Frequency    | 500Hz – 16.0kHz                   | 28 – 58 | table#3   |         |
| 9   | EQ High Gain         | -12 – +12dB                       | 52 – 76 |           |         |
| 10  | Dry/Wet Balance      | D63>W – D=W – D<W63               | 1 – 127 |           | ●       |
| 11  |                      |                                   |         |           |         |
| 12  |                      |                                   |         |           |         |
| 13  |                      |                                   |         |           |         |
| 14  | LFO Phase Difference | -180 – +180deg (resolution=3deg.) | 4 – 124 |           |         |
| 15  |                      |                                   |         |           |         |
| 16  |                      |                                   |         |           |         |

MSB = 68

| No. | Parameter         | Display             | Value   | See Table | Control |
|-----|-------------------|---------------------|---------|-----------|---------|
| 1   | LFO Frequency     | 0.00Hz – 39.7Hz     | 0 – 127 | table#1   |         |
| 2   | LFO Depth         | 0 – 127             | 0 – 127 |           |         |
| 3   | Delay Offset      | 0.0mS – 50mS        | 0 – 127 | table#2   |         |
| 4   |                   |                     |         |           |         |
| 5   |                   |                     |         |           |         |
| 6   | EQ Low Frequency  | 32Hz – 2.0kHz       | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain       | -12 – +12dB         | 52 – 76 |           |         |
| 8   | EQ High Frequency | 500Hz – 16.0kHz     | 28 – 58 | table#3   |         |
| 9   | EQ High Gain      | -12 – +12dB         | 52 – 76 |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63 | 1 – 127 |           | ●       |
| 11  |                   |                     |         |           |         |
| 12  |                   |                     |         |           |         |
| 13  |                   |                     |         |           |         |
| 14  |                   |                     |         |           |         |
| 15  |                   |                     |         |           |         |
| 16  |                   |                     |         |           |         |

## Lista de parámetros de efectos

MSB = 69, LSB = 0, 16, 17

| No. | Parameter         | Display             | Value   | See Table | Control |
|-----|-------------------|---------------------|---------|-----------|---------|
| 1   | LFO Frequency     | 0.00Hz – 39.7Hz     | 0 – 127 | table#1   | ●       |
| 2   | LFO Depth         | 0 – 127             | 0 – 127 |           |         |
| 3   |                   |                     |         |           |         |
| 4   |                   |                     |         |           |         |
| 5   |                   |                     |         |           |         |
| 6   | EQ Low Frequency  | 32Hz – 2.0kHz       | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain       | -12 – +12dB         | 52 – 76 |           |         |
| 8   | EQ High Frequency | 500Hz – 16.0kHz     | 28 – 58 | table#3   |         |
| 9   | EQ High Gain      | -12 – +12dB         | 52 – 76 |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63 | 1 – 127 |           |         |
| 11  |                   |                     |         |           |         |
| 12  |                   |                     |         |           |         |
| 13  |                   |                     |         |           |         |
| 14  |                   |                     |         |           |         |
| 15  |                   |                     |         |           |         |
| 16  |                   |                     |         |           |         |

MSB = 70

| No. | Parameter            | Display                           | Value   | See Table | Control |
|-----|----------------------|-----------------------------------|---------|-----------|---------|
| 1   | LFO Frequency        | 0.00Hz – 39.7Hz                   | 0 – 127 | table#1   | ●       |
| 2   | AM Depth             | 0 – 127                           | 0 – 127 |           |         |
| 3   | PM Depth             | 0 – 127                           | 0 – 127 |           |         |
| 4   |                      |                                   |         |           |         |
| 5   |                      |                                   |         |           |         |
| 6   | EQ Low Frequency     | 32Hz – 2.0kHz                     | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain          | -12 – +12dB                       | 52 – 76 |           |         |
| 8   | EQ High Frequency    | 500Hz – 16.0kHz                   | 28 – 58 | table#3   |         |
| 9   | EQ High Gain         | -12 – +12dB                       | 52 – 76 |           |         |
| 10  |                      |                                   |         |           |         |
| 11  |                      |                                   |         |           |         |
| 12  |                      |                                   |         |           |         |
| 13  |                      |                                   |         |           |         |
| 14  | LFO Phase Difference | -180 – +180deg (resolution=3deg.) | 4 – 124 |           |         |
| 15  | Input Mode           | mono/stereo                       | 0 – 1   |           |         |
| 16  |                      |                                   |         |           |         |

MSB = 71

| No. | Parameter         | Display                          | Value   | See Table | Control |
|-----|-------------------|----------------------------------|---------|-----------|---------|
| 1   | LFO Frequency     | 0.00Hz – 39.7Hz                  | 0 – 127 | table#1   | ●       |
| 2   | L/R Depth         | 0 – 127                          | 0 – 127 |           |         |
| 3   | F/R Depth         | 0 – 127                          | 0 – 127 |           |         |
| 4   | PAN Direction     | L R, L R, L R, Lturn, Rturn, L/R | 0 – 5   |           |         |
| 5   |                   |                                  |         |           |         |
| 6   | EQ Low Frequency  | 32Hz – 2.0kHz                    | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain       | -12 – +12dB                      | 52 – 76 |           |         |
| 8   | EQ High Frequency | 500Hz – 16.0kHz                  | 28 – 58 | table#3   |         |
| 9   | EQ High Gain      | -12 – +12dB                      | 52 – 76 |           |         |
| 10  |                   |                                  |         |           |         |
| 11  |                   |                                  |         |           |         |
| 12  |                   |                                  |         |           |         |
| 13  |                   |                                  |         |           |         |
| 14  |                   |                                  |         |           |         |
| 15  |                   |                                  |         |           |         |
| 16  |                   |                                  |         |           |         |

MSB = 72, LSB = 0, 16, 17, 18

| No. | Parameter          | Display             | Value   | See Table | Control |
|-----|--------------------|---------------------|---------|-----------|---------|
| 1   | LFO Frequency      | 0.00Hz – 39.7Hz     | 0 – 127 | table#1   | ●       |
| 2   | LFO Depth          | 0 – 127             | 0 – 127 |           |         |
| 3   | Phase Shift Offset | 0 – 127             | 0 – 127 |           |         |
| 4   | Feedback Level     | -63 – +63           | 1 – 127 |           |         |
| 5   |                    |                     |         |           |         |
| 6   | EQ Low Frequency   | 32Hz – 2.0kHz       | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain        | -12 – +12dB         | 52 – 76 |           |         |
| 8   | EQ High Frequency  | 500Hz – 16.0kHz     | 28 – 58 |           |         |
| 9   | EQ High Gain       | -12 – +12dB         | 52 – 76 |           |         |
| 10  | Dry/Wet Balance    | D63>W – D=W – D<W63 | 1 – 127 |           |         |
| 11  | Stage              | 6, 7, 8, 9, 10      | 6 – 10  |           |         |
| 12  |                    |                     |         |           |         |
| 13  |                    |                     |         |           |         |
| 14  |                    |                     |         |           |         |
| 15  |                    |                     |         |           |         |
| 16  |                    |                     |         |           |         |

MSB = 72 | SR = 8

| No. | Parameter            | Display                              | Value   | See Table | Control |
|-----|----------------------|--------------------------------------|---------|-----------|---------|
| 1   | LFO Frequency        | 0.00Hz – 39.7Hz                      | 0 – 127 | table#1   | ●       |
| 2   | LFO Depth            | 0 – 127                              | 0 – 127 |           |         |
| 3   | Phase Shift Offset   | 0 – 127                              | 0 – 127 |           |         |
| 4   | Feedback Level       | -63 – +63                            | 1 – 127 |           |         |
| 5   |                      |                                      |         |           |         |
| 6   | EQ Low Frequency     | 32Hz – 2.0kHz                        | 4 – 40  | table#3   |         |
| 7   | EQ Low Gain          | +12 – +12dB                          | 52 – 76 |           |         |
| 8   | EQ High Frequency    | 500Hz – 16.0kHz                      | 28 – 58 | table#3   |         |
| 9   | EQ High Gain         | +12 – +12dB                          | 52 – 76 |           |         |
| 10  | Dry/Wet Balance      | D63>W – D=W – D<W63                  | 1 – 127 |           |         |
| 11  | Stage                | 3, 4, 5                              | 3 – 5   |           |         |
| 12  |                      |                                      |         |           |         |
| 13  | LFO Phase Difference | -180deg – +180deg (resolution=3deg.) | 4 – 124 |           |         |
| 14  |                      |                                      |         |           |         |
| 15  |                      |                                      |         |           |         |
| 16  |                      |                                      |         |           |         |

MSB = 73, LSB = 0

MSB = 74

| No. | Parameter         | Display                | Value    | See Table | Control |
|-----|-------------------|------------------------|----------|-----------|---------|
| 1   | Drive             | 0 – 127                | 0 – 127  |           | ●       |
| 2   | EQ Low Frequency  | 32Hz – 2.0kHz          | 4 – 40   | table#3   |         |
| 3   | EQ Low Gain       | -12 – +12dB            | 52 – 76  |           |         |
| 4   | LPF Cutoff        | 1.0k – Thru            | 34 – 60  | table#3   |         |
| 5   | Output Level      | 0 – 127                | 0 – 127  |           |         |
| 6   |                   |                        |          |           |         |
| 7   | EQ Mid Frequency  | 100Hz – 10.0kHz        | 14 – 54  | table#3   |         |
| 8   | EQ Mid Gain       | -12 – +12dB            | 52 – 76  |           |         |
| 9   | EQ Mid Width      | 1.0 – 12.0             | 10 – 120 |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63    | 1 – 127  |           |         |
| 11  | Edge (Clip Curve) | 0 (mild) – 127 (sharp) | 0 – 127  |           |         |
| 12  |                   |                        |          |           |         |
| 13  |                   |                        |          |           |         |
| 14  |                   |                        |          |           |         |
| 15  |                   |                        |          |           |         |
| 16  |                   |                        |          |           |         |

## Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos

MSB = 75

| No. | Parameter         | Display                 | Value   | See Table | Control |
|-----|-------------------|-------------------------|---------|-----------|---------|
| 1   | Drive             | 0 – 127                 | 0 – 127 | table#3   | ●       |
| 2   | AMP Type          | Off, Stack, Combo, Tube | 0 – 3   |           |         |
| 3   | LPF Cutoff        | 1.0k – Thru             | 34 – 60 |           |         |
| 4   | Output Level      | 0 – 127                 | 0 – 127 |           |         |
| 5   |                   |                         |         |           |         |
| 6   |                   |                         |         |           |         |
| 7   |                   |                         |         |           |         |
| 8   |                   |                         |         |           |         |
| 9   |                   |                         |         |           |         |
| 10  | Dry/Wet Balance   | D63>W – D=W – D<W63     | 1 – 127 |           |         |
| 11  | Edge (Clip Curve) | 0 (mild) – 127 (sharp)  | 0 – 127 |           |         |
| 12  |                   |                         |         |           |         |
| 13  |                   |                         |         |           |         |
| 14  |                   |                         |         |           |         |
| 15  |                   |                         |         |           |         |
| 16  |                   |                         |         |           |         |

**MSB = 78, LSB = 0, 16, 19, 20**

| No. | Parameter               | Display             | Value    | See Table | Control                                                                             |
|-----|-------------------------|---------------------|----------|-----------|-------------------------------------------------------------------------------------|
| 1   | LFO Frequency           | 0.00Hz – 39.7Hz     | 0 – 127  | table#1   |  |
| 2   | LFO Depth               | 0 – 127             | 0 – 127  |           |                                                                                     |
| 3   | Cutoff Frequency Offset | 0 – 127             | 0 – 127  |           |                                                                                     |
| 4   | Resonance               | 1.0 – 12.0          | 10 – 120 |           |                                                                                     |
| 5   |                         |                     |          |           |                                                                                     |
| 6   | EQ Low Frequency        | 32Hz – 2.0kHz       | 4 – 40   | table#3   |                                                                                     |
| 7   | EQ Low Gain             | -12 – +12dB         | 52 – 76  |           |                                                                                     |
| 8   | EQ High Frequency       | 500Hz – 16.0kHz     | 28 – 58  | table#3   |                                                                                     |
| 9   | EQ High Gain            | -12 – +12dB         | 52 – 76  |           |                                                                                     |
| 10  | Dry/Wet Balance         | D63>W – D=W – D<W63 | 1 – 127  |           |                                                                                     |
| 11  |                         |                     |          |           |                                                                                     |
| 12  |                         |                     |          |           |                                                                                     |
| 13  |                         |                     |          |           |                                                                                     |
| 14  |                         |                     |          |           |                                                                                     |
| 15  |                         |                     |          |           |                                                                                     |
| 16  |                         |                     |          |           |                                                                                     |

MSB = 76

| No. | Parameter         | Display         | Value    | See Table | Control |
|-----|-------------------|-----------------|----------|-----------|---------|
| 1   | EQ Low Gain       | -12 ~ +12dB     | 52 ~ 76  | table#3   |         |
| 2   | EQ Mid Frequency  | 100Hz ~ 10.0kHz | 14 ~ 54  |           |         |
| 3   | EQ Mid Gain       | -12 ~ +12dB     | 52 ~ 76  |           |         |
| 4   | EQ Mid Width      | 1.0 ~ 12.0      | 10 ~ 120 |           |         |
| 5   | EQ High Gain      | -12 ~ +12dB     | 52 ~ 76  | table#3   |         |
| 6   | EQ Low Frequency  | 50Hz ~ 2.0kHz   | 8 ~ 40   |           |         |
| 7   | EQ High Frequency | 500Hz ~ 16.0kHz | 28 ~ 58  | table#3   |         |
| 8   |                   |                 |          |           |         |
| 9   |                   |                 |          |           |         |
| 10  |                   |                 |          |           |         |
| 11  |                   |                 |          |           |         |
| 12  |                   |                 |          |           |         |
| 13  |                   |                 |          |           |         |
| 14  |                   |                 |          |           |         |
| 15  | Input Mode        | mono/stereo     | 0 ~ 1    |           |         |
| 16  |                   |                 |          |           |         |

**MSB = 64**

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------|---------|-------|-----------|---------|
| 1   |           |         |       |           |         |
| 2   |           |         |       |           |         |
| 3   |           |         |       |           |         |
| 4   |           |         |       |           |         |
| 5   |           |         |       |           |         |
| 6   |           |         |       |           |         |
| 7   |           |         |       |           |         |
| 8   |           |         |       |           |         |
| 9   |           |         |       |           |         |
| 10  |           |         |       |           |         |
| 11  |           |         |       |           |         |
| 12  |           |         |       |           |         |
| 13  |           |         |       |           |         |
| 14  |           |         |       |           |         |
| 15  |           |         |       |           |         |
| 16  |           |         |       |           |         |

MSB = 77

| No. | Parameter         | Display         | Value   | See Table | Control |
|-----|-------------------|-----------------|---------|-----------|---------|
| 1   | EQ Low Frequency  | 32Hz – 2.0kHz   | 4 – 40  | table#3   |         |
| 2   | EQ Low Gain       | -12 – +12dB     | 52 – 76 |           |         |
| 3   | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3   |         |
| 4   | EQ High Gain      | -12 – +12dB     | 52 – 76 |           |         |
| 5   |                   |                 |         |           |         |
| 6   |                   |                 |         |           |         |
| 7   |                   |                 |         |           |         |
| 8   |                   |                 |         |           |         |
| 9   |                   |                 |         |           |         |
| 10  |                   |                 |         |           |         |
| 11  |                   |                 |         |           |         |
| 12  |                   |                 |         |           |         |
| 13  |                   |                 |         |           |         |
| 14  |                   |                 |         |           |         |
| 15  |                   |                 |         |           |         |
| 16  |                   |                 |         |           |         |

Parameter 10 Dry/Wet Balance only affects insertion type effects.

# Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabla de asignación de datos para efectos

**Table#1**  
LFO Frequency

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0    | 0.00  | 32   | 1.35  | 64   | 2.69  | 96   | 8.41  |
| 1    | 0.04  | 33   | 1.39  | 65   | 2.78  | 97   | 8.75  |
| 2    | 0.08  | 34   | 1.43  | 66   | 2.86  | 98   | 9.08  |
| 3    | 0.13  | 35   | 1.47  | 67   | 2.94  | 99   | 9.42  |
| 4    | 0.17  | 36   | 1.51  | 68   | 3.03  | 100  | 9.76  |
| 5    | 0.21  | 37   | 1.56  | 69   | 3.11  | 101  | 10.1  |
| 6    | 0.25  | 38   | 1.60  | 70   | 3.20  | 102  | 10.8  |
| 7    | 0.29  | 39   | 1.64  | 71   | 3.28  | 103  | 11.4  |
| 8    | 0.34  | 40   | 1.68  | 72   | 3.37  | 104  | 12.1  |
| 9    | 0.38  | 41   | 1.72  | 73   | 3.45  | 105  | 12.8  |
| 10   | 0.42  | 42   | 1.77  | 74   | 3.53  | 106  | 13.5  |
| 11   | 0.46  | 43   | 1.81  | 75   | 3.62  | 107  | 14.1  |
| 12   | 0.51  | 44   | 1.85  | 76   | 3.70  | 108  | 14.8  |
| 13   | 0.55  | 45   | 1.89  | 77   | 3.87  | 109  | 15.5  |
| 14   | 0.59  | 46   | 1.94  | 78   | 4.04  | 110  | 16.2  |
| 15   | 0.63  | 47   | 1.98  | 79   | 4.21  | 111  | 16.8  |
| 16   | 0.67  | 48   | 2.02  | 80   | 4.37  | 112  | 17.5  |
| 17   | 0.72  | 49   | 2.06  | 81   | 4.54  | 113  | 18.2  |
| 18   | 0.76  | 50   | 2.10  | 82   | 4.71  | 114  | 19.5  |
| 19   | 0.80  | 51   | 2.15  | 83   | 4.88  | 115  | 20.9  |
| 20   | 0.84  | 52   | 2.19  | 84   | 5.05  | 116  | 22.2  |
| 21   | 0.88  | 53   | 2.23  | 85   | 5.22  | 117  | 23.6  |
| 22   | 0.93  | 54   | 2.27  | 86   | 5.38  | 118  | 24.9  |
| 23   | 0.97  | 55   | 2.31  | 87   | 5.55  | 119  | 26.2  |
| 24   | 1.01  | 56   | 2.36  | 88   | 5.72  | 120  | 27.6  |
| 25   | 1.05  | 57   | 2.40  | 89   | 6.06  | 121  | 28.9  |
| 26   | 1.09  | 58   | 2.44  | 90   | 6.39  | 122  | 30.3  |
| 27   | 1.14  | 59   | 2.48  | 91   | 6.73  | 123  | 31.6  |
| 28   | 1.18  | 60   | 2.52  | 92   | 7.07  | 124  | 33.0  |
| 29   | 1.22  | 61   | 2.57  | 93   | 7.40  | 125  | 34.3  |
| 30   | 1.26  | 62   | 2.61  | 94   | 7.74  | 126  | 37.0  |
| 31   | 1.30  | 63   | 2.65  | 95   | 8.08  | 127  | 39.7  |

**Table#3**  
EQ Frequency

| Data | Value   | Data | Value       |
|------|---------|------|-------------|
| 0    | THRU(0) | 32   | 800         |
| 1    |         | 22   | 33          |
| 2    | 25      | 34   | 1.0k        |
| 3    | 28      | 35   | 1.1k        |
| 4    | 32      | 36   | 1.2k        |
| 5    | 36      | 37   | 1.4k        |
| 6    | 40      | 38   | 1.6k        |
| 7    | 45      | 39   | 1.8k        |
| 8    | 50      | 40   | 2.0k        |
| 9    | 56      | 41   | 2.2k        |
| 10   | 63      | 42   | 2.5k        |
| 11   | 70      | 43   | 2.8k        |
| 12   | 80      | 44   | 3.2k        |
| 13   | 90      | 45   | 3.6k        |
| 14   | 100     | 46   | 4.0k        |
| 15   | 110     | 47   | 4.5k        |
| 16   | 125     | 48   | 5.0k        |
| 17   | 140     | 49   | 5.6k        |
| 18   | 160     | 50   | 6.3k        |
| 19   | 180     | 51   | 7.0k        |
| 20   | 200     | 52   | 8.0k        |
| 21   | 225     | 53   | 9.0k        |
| 22   | 250     | 54   | 10.0k       |
| 23   | 280     | 55   | 11.0k       |
| 24   | 315     | 56   | 12.0k       |
| 25   | 355     | 57   | 14.0k       |
| 26   | 400     | 58   | 16.0k       |
| 27   | 450     | 59   | 18.0k       |
| 28   | 500     | 60   | THRU(20.0k) |
| 29   | 560     |      |             |
| 30   | 630     |      |             |
| 31   | 700     |      |             |

**Table#5**  
Delay Time (200.0ms)

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0    | 0.1   | 32   | 50.5  | 64   | 100.8 | 96   | 151.2 |
| 1    | 1.7   | 33   | 52.0  | 65   | 102.4 | 97   | 152.8 |
| 2    | 3.2   | 34   | 53.6  | 66   | 104.0 | 98   | 154.4 |
| 3    | 4.8   | 35   | 55.2  | 67   | 105.6 | 99   | 155.9 |
| 4    | 6.4   | 36   | 56.8  | 68   | 107.1 | 100  | 157.5 |
| 5    | 8.0   | 37   | 58.3  | 69   | 108.7 | 101  | 159.1 |
| 6    | 9.5   | 38   | 59.9  | 70   | 110.3 | 102  | 160.6 |
| 7    | 11.1  | 39   | 61.5  | 71   | 111.9 | 103  | 162.2 |
| 8    | 12.7  | 40   | 63.1  | 72   | 113.4 | 104  | 163.8 |
| 9    | 14.3  | 41   | 64.6  | 73   | 115.0 | 105  | 165.4 |
| 10   | 15.8  | 42   | 66.2  | 74   | 116.6 | 106  | 166.9 |
| 11   | 17.4  | 43   | 67.8  | 75   | 118.2 | 107  | 168.5 |
| 12   | 19.0  | 44   | 69.4  | 76   | 119.7 | 108  | 170.1 |
| 13   | 20.6  | 45   | 70.9  | 77   | 121.3 | 109  | 171.7 |
| 14   | 22.1  | 46   | 72.5  | 78   | 122.9 | 110  | 173.2 |
| 15   | 23.7  | 47   | 74.1  | 79   | 124.4 | 111  | 174.8 |
| 16   | 25.3  | 48   | 75.7  | 80   | 126.0 | 112  | 176.4 |
| 17   | 26.9  | 49   | 77.2  | 81   | 127.6 | 113  | 178.0 |
| 18   | 28.4  | 50   | 78.8  | 82   | 129.2 | 114  | 179.5 |
| 19   | 30.0  | 51   | 80.4  | 83   | 130.7 | 115  | 181.1 |
| 20   | 31.6  | 52   | 81.9  | 84   | 132.3 | 116  | 182.7 |
| 21   | 33.2  | 53   | 83.5  | 85   | 133.9 | 117  | 184.3 |
| 22   | 34.7  | 54   | 85.1  | 86   | 135.5 | 118  | 185.8 |
| 23   | 36.3  | 55   | 86.7  | 87   | 137.0 | 119  | 187.4 |
| 24   | 37.9  | 56   | 88.2  | 88   | 138.6 | 120  | 189.0 |
| 25   | 39.5  | 57   | 89.8  | 89   | 140.2 | 121  | 190.6 |
| 26   | 41.0  | 58   | 91.4  | 90   | 141.8 | 122  | 192.1 |
| 27   | 42.6  | 59   | 93.0  | 91   | 143.3 | 123  | 193.7 |
| 28   | 44.2  | 60   | 94.5  | 92   | 144.9 | 124  | 195.3 |
| 29   | 45.7  | 61   | 96.1  | 93   | 146.5 | 125  | 196.9 |
| 30   | 47.3  | 62   | 97.7  | 94   | 148.1 | 126  | 198.4 |
| 31   | 48.9  | 63   | 99.3  | 95   | 149.6 | 127  | 200.0 |

**Table#7**  
Delay Time (400.0ms)

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0    | 0.1   | 32   | 100.9 | 64   | 201.6 | 96   | 302.4 |
| 1    | 3.2   | 33   | 104.0 | 65   | 204.8 | 97   | 305.5 |
| 2    | 6.4   | 34   | 107.2 | 66   | 207.9 | 98   | 308.7 |
| 3    | 9.5   | 35   | 110.3 | 67   | 211.1 | 99   | 311.8 |
| 4    | 12.7  | 36   | 113.5 | 68   | 214.2 | 100  | 315.0 |
| 5    | 15.8  | 37   | 116.6 | 69   | 217.4 | 101  | 318.1 |
| 6    | 19.0  | 38   | 119.8 | 70   | 220.5 | 102  | 321.3 |
| 7    | 22.1  | 39   | 122.9 | 71   | 223.7 | 103  | 324.4 |
| 8    | 25.3  | 40   | 126.1 | 72   | 226.8 | 104  | 327.6 |
| 9    | 28.4  | 41   | 129.2 | 73   | 230.0 | 105  | 330.7 |
| 10   | 31.6  | 42   | 132.4 | 74   | 233.1 | 106  | 333.9 |
| 11   | 34.7  | 43   | 135.5 | 75   | 236.3 | 107  | 337.0 |
| 12   | 37.9  | 44   | 138.6 | 76   | 239.4 | 108  | 340.2 |
| 13   | 41.0  | 45   | 141.8 | 77   | 242.6 | 109  | 343.3 |
| 14   | 44.2  | 46   | 144.9 | 78   | 245.7 | 110  | 346.5 |
| 15   | 47.3  | 47   | 148.1 | 79   | 248.9 | 111  | 349.6 |
| 16   | 50.5  | 48   | 151.2 | 80   | 252.0 | 112  | 352.8 |
| 17   | 53.6  | 49   | 154.4 | 81   | 255.2 | 113  | 355.9 |
| 18   | 56.8  | 50   | 157.5 | 82   | 258.3 | 114  | 359.1 |
| 19   | 59.9  | 51   | 160.7 | 83   | 261.5 | 115  | 362.2 |
| 20   | 63.1  | 52   | 163.8 | 84   | 264.6 | 116  | 365.4 |
| 21   | 66.2  | 53   | 167.0 | 85   | 267.7 | 117  | 368.5 |
| 22   | 69.4  | 54   | 170.1 | 86   | 270.9 | 118  | 371.7 |
| 23   | 72.5  | 55   | 173.3 | 87   | 274.0 | 119  | 374.8 |
| 24   | 75.7  | 56   | 176.4 | 88   | 277.2 | 120  | 378.0 |
| 25   | 78.8  | 57   | 179.6 | 89   | 280.3 | 121  | 381.1 |
| 26   | 82.0  | 58   | 182.7 | 90   | 283.5 | 122  | 384.3 |
| 27   | 85.1  | 59   | 185.9 | 91   | 286.6 | 123  | 387.4 |
| 28   | 88.3  | 60   | 189.0 | 92   | 289.8 | 124  | 390.6 |
| 29   | 91.4  | 61   | 192.2 | 93   | 292.9 | 125  | 393.7 |
| 30   | 94.6  | 62   | 195.3 | 94   | 296.1 | 126  | 396.9 |
| 31   | 97.7  | 63   | 198.5 | 95   | 299.2 | 127  | 400.0 |

**Table#2**  
Modulation Delay Offset

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0    | 0.0   | 32   | 3.2   | 64   | 6.4   | 96   | 9.6   |
| 1    | 0.1   | 33   | 3.3   | 65   | 6.5   | 97   | 9.7   |
| 2    | 0.2   | 34   | 3.4   | 66   | 6.6   | 98   | 9.8   |
| 3    | 0.3   | 35   | 3.5   | 67   | 6.7   | 99   | 9.9   |
| 4    | 0.4   | 36   | 3.6   | 68   | 6.8   | 100  | 10.0  |
| 5    | 0.5   | 37   | 3.7   | 69   | 6.9   | 101  | 11.1  |
| 6    | 0.6   | 38   | 3.8   | 70   | 7.0   | 102  | 12.2  |
| 7    | 0.7   | 39   | 3.9   | 71   | 7.1   | 103  | 13.3  |
| 8    | 0.8   | 40   | 4.0   | 72   | 7.2   | 104  | 14.4  |
| 9    | 0.9   | 41   | 4.1   | 73   | 7.3   | 105  | 15.5  |
| 10   | 1.0   | 42   | 4.2   | 74   | 7.4   | 106  | 17.1  |
| 11   | 1.1   | 43   | 4.3   | 75   | 7.5   | 107  | 18.6  |
| 12   | 1.2   | 44   | 4.4   | 76   | 7.6   | 108  | 20.2  |
| 13   | 1.3   | 45   | 4.5   | 77   | 7.7   | 109  | 21.8  |
| 14   | 1.4   | 46   | 4.6   | 78   | 7.8   | 110  | 23.3  |
| 15   | 1.5   | 47   | 4.7   | 79   | 7.9   | 111  | 24.9  |
| 16   | 1.6   | 48   | 4.8   | 80   | 8.0   | 112  | 26.5  |
| 17   | 1.7   | 49   | 4.9   | 81   | 8.1   | 113  | 28.0  |
| 18   | 1.8   | 50   | 5.0   | 82   | 8.2   | 114  | 29.6  |
| 19   | 1.9   | 51   | 5.1   | 83   | 8.3   | 115  | 31.2  |
| 20   | 2.0   | 52   | 5.2   | 84   | 8.4   | 116  | 32.8  |
| 21   | 2.1   | 53   | 5.3   | 85   | 8.5   | 117  | 34.3  |
| 22   | 2.2   | 54   | 5.4   | 86   | 8.6   | 118  | 35.9  |
| 23   | 2.3   | 55   | 5.5   | 87   | 8.7   | 119  | 37.5  |
| 24   | 2.4   | 56   | 5.6   | 88   | 8.8   | 120  | 39.0  |
| 25   | 2.5   | 57   | 5.7   | 89   | 8.9   | 121  | 40.6  |
| 26   | 2.6   | 58   | 5.8   | 90   | 9.0   | 122  | 42.2  |
| 27   | 2.7   | 59   | 5.9   | 91   | 9.1   | 123  | 43.7  |
| 28   | 2.8   | 60   | 6.0   | 92   | 9.2   | 124  | 45.3  |
| 29   | 2.9   | 61   | 6.1   | 93   | 9.3   | 125  | 46.9  |
| 30   | 3.0   | 62   | 6.2   | 94   | 9.4   | 126  | 48.4  |
| 31   | 3.1   | 63   | 6.3   | 95   | 9.5   | 127  | 50.0  |

**Table#4**  
Reverb Time

| Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|
| 0    | 0.3   | 32   | 3.5   | 64   | 17.0  |
| 1    | 0.4   | 33   | 3.6   | 65   | 18.0  |
| 2    | 0.5   | 34   | 3.7   | 66   | 19.0  |
| 3    | 0.6   | 35   | 3.8   | 67   | 20.0  |
| 4    | 0.7   | 36   | 3.9   | 68   | 25.0  |
| 5    | 0.8   | 37   | 4.0   | 69   | 30.0  |
| 6    | 0.9   | 38   | 4.1   |      |       |
| 7    | 1.0   | 39   | 4.2   |      |       |
| 8    | 1.1   | 40   | 4.3   |      |       |
| 9    | 1.2   | 41   | 4.4   |      |       |
| 10   | 1.3   | 42   | 4.5   |      |       |
| 11   | 1.4   | 43   | 4.6   |      |       |
| 12   | 1.5   | 44   | 4.7   |      |       |
| 13   | 1.6   | 45   | 4.8   |      |       |
| 14   | 1.7   | 46   | 4.9   |      |       |
| 15   | 1.8   | 47   | 5.0   |      |       |
| 16   | 1.9   | 48   | 5.5   |      |       |
| 17   | 2.0   | 49   | 6.0   |      |       |
| 18   | 2.1   | 50   | 6.5   |      |       |
| 19   | 2.2   | 51   | 7.0   |      |       |
| 20   | 2.3   | 52   | 7.5   |      |       |
| 21   | 2.4   | 53   | 8.0   |      |       |
| 22   | 2.5   | 54   | 8.5   |      |       |
| 23   | 2.6   | 55   | 9.0   |      |       |
| 24   | 2.7   | 56   | 9.5   |      |       |
| 25   | 2.8   | 57   | 10.0  |      |       |
| 26   | 2.9   | 58   | 11.0  |      |       |
| 27   | 3.0   | 59   | 12.0  |      |       |
| 28   | 3.1   | 60   | 13.0  |      |       |
| 29   | 3.2   | 61   | 14.0  |      |       |
| 30   | 3.3   | 62   | 15.0  |      |       |
| 31   | 3.4   | 63   | 16.0  |      |       |

**Table#6**  
Room Size

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0    | 0.1   | 32   | 5.1   | 64   | 10.1  | 96   | 15.1  |
| 1    | 0.3   | 33   | 5.3   | 65   | 10.3  | 97   | 15.3  |
| 2    | 0.4   | 34   | 5.4   | 66   | 10.4  | 98   | 15.4  |
| 3    | 0.6   | 35   | 5.6   | 67   | 10.6  | 99   | 15.6  |
| 4    | 0.7   | 36   | 5.7   | 68   | 10.8  | 100  | 15.8  |
| 5    | 0.9   | 37   | 5.9   | 69   | 10.9  | 101  | 15.9  |
| 6    | 1.0   | 38   | 6.1   | 70   | 11.1  | 102  | 16.1  |
| 7    | 1.2   | 39   | 6.2   | 71   | 11.2  | 103  | 16.2  |
| 8    | 1.4   | 40   | 6.4   | 72   | 11.4  | 104  | 16.4  |
| 9    | 1.5   | 41   | 6.5   | 73   | 11.5  | 105  | 16.5  |
| 10   | 1.7   | 42   | 6.7   | 74   | 11.7  | 106  | 16.7  |
| 11   | 1.8   | 43   | 6.8   | 75   | 11.9  | 107  | 16.9  |
| 12   | 2.0   | 44   | 7.0   | 76   | 12.0  | 108  | 17.0  |
| 13   | 2.1   | 45   | 7.2   | 77   | 12.2  | 109  | 17.2  |
| 14   | 2.3   | 46   | 7.3   | 78   | 12.3  | 110  | 17.3  |
| 15   | 2.5   | 47   | 7.5   | 79   | 12.5  | 111  | 17.5  |
| 16   | 2.6   | 48   | 7.6   | 80   | 12.6  | 112  | 17.6  |
| 17   | 2.8   | 49   | 7.8   | 81   | 12.8  | 113  | 17.8  |
| 18   | 2.9   | 50   | 7.9   | 82   | 12.9  | 114  | 18.0  |
| 19   | 3.1   | 51   | 8.1   | 83   | 13.1  | 115  | 18.1  |
| 20   | 3.2   | 52   | 8.2   | 84   | 13.3  | 116  | 18.3  |
| 21   | 3.4   | 53   | 8.4   | 85   | 13.4  | 117  | 18.4  |
| 22   | 3.5   | 54   | 8.6   | 86   | 13.6  | 118  | 18.6  |
| 23   | 3.7   | 55   | 8.7   | 87   | 13.7  | 119  | 18.7  |
| 24   | 3.9   | 56   | 8.9   | 88   | 13.9  | 120  | 18.9  |
| 25   | 4.0   | 57   | 9.0   | 89   | 14.0  | 121  | 19.1  |
| 26   | 4.2   | 58   | 9.2   | 90   | 14.2  | 122  | 19.2  |
| 27   | 4.3   | 59   | 9.3   | 91   | 14.4  | 123  | 19.4  |
| 28   | 4.5   | 60   | 9.5   | 92   | 14.5  | 124  | 19.5  |
| 29   | 4.6   | 61   | 9.7   | 93   | 14.7  | 125  | 19.7  |
| 30   | 4.8   | 62   | 9.8   | 94   | 14.8  | 126  | 19.8  |
| 31   | 5.0   | 63   | 10.0  | 95   | 15.0  | 127  | 20.0  |

| Function ...                                                                                                    | Transmitted                                                                                                                                                                                     | Recognized                                                                                                           | Remarks                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Default<br>Channel Changed                                                                                | 1 - 16<br>1 - 16 *1                                                                                                                                                                             | 1 - 16<br>1 - 16 *2                                                                                                  | Memorized                                                                                                                                                                              |
| Mode Default<br>Messages<br>Altered                                                                             | 3<br>x<br>*****                                                                                                                                                                                 | 3<br>3,4 (m=1) *3<br>x                                                                                               |                                                                                                                                                                                        |
| Note<br>Number : True voice                                                                                     | 0 - 127<br>*****                                                                                                                                                                                | 0 - 127<br>0 - 127                                                                                                   |                                                                                                                                                                                        |
| Velocity Note ON<br>Note OFF                                                                                    | o 9nH,v=1-127<br>x 9nH,v=0                                                                                                                                                                      | o 9nH,v=1-127<br>x                                                                                                   |                                                                                                                                                                                        |
| After Key's<br>Touch Ch's                                                                                       | x<br>x                                                                                                                                                                                          | x<br>o                                                                                                               |                                                                                                                                                                                        |
| Pitch Bend                                                                                                      | o                                                                                                                                                                                               | o 0-24 semi                                                                                                          |                                                                                                                                                                                        |
| Control<br>change                                                                                               | 0,32<br>1<br>5<br>7,10,11<br>6,38<br>64,66,67<br>65<br>71-74<br>84<br>91,93,94<br>96,97<br>98,99<br>100,101<br>o<br>x *4<br>x<br>o<br>o<br>o<br>o<br>x<br>o<br>o<br>x *4<br>o<br>o<br>x *4<br>o | o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o<br>o | Bank Select<br>Modulation<br>Portamento Time<br><br>Data Entry<br><br>Portamento<br>Sound Controller<br>Portamento Cntrl<br>Effect Depth<br>RPN Inc,Dec<br>NRPN LSB,MSB<br>RPN LSB,MSB |
| Prog<br>Change : True #                                                                                         | o 0 - 127<br>*****                                                                                                                                                                              | o 0 - 127                                                                                                            |                                                                                                                                                                                        |
| System Exclusive                                                                                                | o                                                                                                                                                                                               | o                                                                                                                    |                                                                                                                                                                                        |
| : Song Pos.<br>Common : Song Sel.<br>: Tune                                                                     | x<br>x<br>x                                                                                                                                                                                     | x<br>x<br>x                                                                                                          |                                                                                                                                                                                        |
| System :Clock<br>Real Time :Commands                                                                            | o<br>o                                                                                                                                                                                          | o<br>o                                                                                                               |                                                                                                                                                                                        |
| Aux :All Sound Off<br>:Reset All Cntrls<br>:Local ON/OFF<br>:All Notes OFF<br>Mes- :Active Sense<br>sages:Reset | x<br>x<br>x<br>x<br>o<br>x                                                                                                                                                                      | o (120,126,127)<br>o (121)<br>o (122)<br>o (123-125)<br>o<br>x                                                       |                                                                                                                                                                                        |
| Notes:                                                                                                          |                                                                                                                                                                                                 |                                                                                                                      |                                                                                                                                                                                        |

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

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

o : Yes  
x : No

#### Notes:

- \*1: The send channel for the RIGHT1, RIGHT2, and LEFT parts can be set using the Send Channel (Keyboard) function. The transmission of accompaniment, harmony, and song data can be turned on or off using the Send Channel (Accompaniment/Harmony) and Song Transmission functions.
- \*2: Messages received on the channel set by the Remote Keyboard function are handled as operations performed directly on the keyboard or panel. Only the following messages are received on this channel:
- Note On/Off (A-1...C7)
  - Control Changes
    - Bank Select MSB/LSB (RIGHT1 part)
    - Modulation
    - Data Entry MSB (when PITCH BEND SENS. is set by RPN LSB/MSB)
    - Volume
    - Expression
    - Sustain
    - Sostenuto
    - Soft Pedal
    - Data Increment/Decrement (when PITCH BEND SENS. is set by RPN LSB/MSB)
    - RPN LSB/MSB (PITCH BEND SENS. only)
    - All Note Off
  - Program Change (RIGHT1 part)
  - Pitch Bend
- \*3: "m" is always treated as "1" regardless of its value.
- \*4: Transmitted when ACMP&RHY or HARMONY setting of Send Channel (Accompaniment/Harmony) function is on.

#### Remarques :

- \*1 : Le canal d'émission pour les parties RIGHT1, RIGHT2, et LEFT peut être configuré à l'aide de la fonction Send Channel (Keyboard). La transmission des données d'accompagnement, d'harmonie et de morceau peut être activée ou désactivée à l'aide des fonctions Send Channel (Accompaniment/Harmony) et Song Transmission.
- \*2 : Les messages reçus sur le canal configuré à l'aide de la fonction Remote Keyboard sont traités comme des opérations réalisées directement sur le clavier ou le panneau. Seuls les messages suivants sont reçus sur ce canal :
- Note On/Off (A-1...C7)
  - Control Changes
    - Bank Select MSB/LSB (partie RIGHT1)
    - Modulation
    - Data Entry MSB (si PITCH BEND SENS. est défini à l'aide de RPN LSB/MSB)
    - Volume
    - Expression
    - Sustain
    - Sostenuto
    - Soft Pedal
    - Data Increment/Decrement (si PITCH BEND SENS. est défini à l'aide de RPN LSB/MSB)
    - RPN LSB/MSB (PITCH BEND SENS. uniquement)
    - All Note Off
  - Program Change (partie RIGHT1)
  - Pitch Bend
- \*3 : "m" équivaut toujours à "1" quelle que soit sa valeur.
- \*4 : Transmis(e) si le paramètre ACMP&RHY ou HARMONY de la fonction Send Channel (Accompaniment/Harmony) est activé.

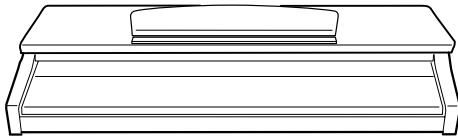
#### Hinweise:

- \*1: Der Sendekanal für die Parts RIGHT1, RIGHT2 und LEFT lässt sich über die Funktion Sendekanal (Keyboard) einstellen. Die Übertragung von Begleitungs-, Harmonie- und Songdaten kann mit den Funktionen Sendekanal (Begleitung/Harmonie) und Song-Übertragung ein- bzw. ausgeschaltet werden.
- \*2: Meldungen, die an dem Kanal empfangen werden, der von der Remote Keyboard-Funktion eingestellt wurde, werden als direkt auf dem Keyboard oder Steuerpult ausgeführte Bedienoperationen angesehen. Nur die nachfolgend genannten Meldungen werden auf diesem Kanal empfangen:
- Noten Ein/Aus (A-1...C7)
  - Steuerungsänderungs-
    - Bank. Wählen Sie MSB/LSB (Part RIGHT1)
    - Modulation
    - Dateneintrag MSB (sofern die Option PITCH BEND SENS. (Tonlagenabstastung) von RPN LSB/MSB) eingestellt wurde
    - VOLUME (LAUTSTÄRKE)
    - Expression (Ausdruck)
    - Sustain
    - Sostenuto
    - Soft Pedal
    - Datenerhöhung/-erniedrigung (sofern die Option PITCH BEND SENS. (Tonlagenabstastung) von RPN LSB/MSB eingestellt wurde)
    - RPN LSB/MSB (nur PITCH BEND SENS., TONLAGENABTASTUNG)
    - Alle Noten ausgeschaltet
  - Programmänderung (Part RIGHT1)
  - Pitch Bend (Tonlage)
- \*3: "m" wird stets als "1" behandelt, unabhängig von dessen Wert.
- \*4: Wird übertragen, wenn die ACMP&RHY- oder HARMONIE-Einstellung der Funktion Sendekanal (Begleitung/Harmonie) aktiviert ist.

#### Notas:

- \*1: El canal de envío para las partes RIGHT1, RIGHT2 y LEFT puede ajustarse utilizando la función Send Channel (teclado). La transmisión del acompañamiento de la armonía y de los datos de canción se pueden activar o desactivar utilizando las funciones Send Channel (Accompaniment/Harmony) y Song Transmission.
- \*2: Los mensajes recibidos en el canal ajustado por la función Remote Keyboard se consideran como operaciones realizadas directamente en el teclado o el panel. Sólo los mensajes siguientes se reciben en este canal:
- Note On/Off (A-1...C7)
  - Control Changes
    - Bank Select MSB/LSB (parte RIGHT1)
    - Modulation
    - Data Entry MSB (cuando PITCH BEND SENS. se ajusta con RPN LSB/MSB)
    - Volume
    - Expression
    - Sustain
    - Sostenuto
    - Soft Pedal
    - Data Increment/Decrement (cuando PITCH BEND SENS. se ajusta con RPN LSB/MSB)
    - RPN LSB/MSB (sólo PITCH BEND SENS.)
    - All Note Off
  - Program Change (parte RIGHT1)
  - Pitch Bend
- \*3: "m" siempre se considera como "1" independientemente de su valor.
- \*4: Transmitido cuando los ajustes ACMP&RHY o HARMONY de la función Send Channel (Accompaniment/Harmony) está activada.

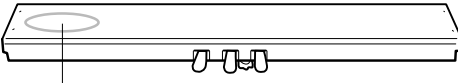
A



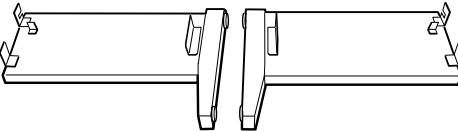
B



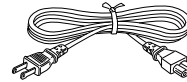
C



D



- Bundled pedal cord inside
- Gebündeltes Pedalkabel
- Cordon de pédalier enroulé à l'intérieur
- Cable de pedales enrollado en el interior



- AC power cord
- Netzkabel
- Cordon d'alimentation
- Cable de alimentación de CA



- Cord holders x 2
- Kabelhalter x 2
- Serre-câble x 2
- Soportes de cable x 2

## Assembly

### ⚠ CAUTION

- Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.
- Assembly should be carried out by at least two persons.
- Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.
- Be sure to tighten up all screws upon completing assembly of each unit.
- To disassemble, reverse the assembly sequence given below.

### 1 Open the box and remove all the parts.

Remove all parts from the box. Confirm that all parts shown in the illustration above are provided.

### 2 Attach the side panels (D) to the pedal box (C).

Before installing the pedal box, untie and straighten out the bundled cord attached to the bottom of the pedal box. Don't discard the vinyl tie, you'll need it later in step 5. Place the pedal box on top of the brackets attached to the side panels (D), and attach using the four 6 x 20 millimeter round-head screws 1 — two screws on each side. Make sure the pedals extend in the same direction as the side panel feet.

## Zusammenbau

### ⚠ VORSICHT

- Achten Sie darauf, die Teile nicht zu verwechseln, und installieren Sie alle Teile in der richtigen Ausrichtung. Gehen Sie beim Zusammenbau bitte in der angegebenen Reihenfolge vor.
- Die Montage sollte von mindestens zwei Personen vorgenommen werden.
- Achten Sie darauf, die richtige Schraubengröße zu verwenden, wie es oben gezeigt ist. Die Verwendung der falschen Schrauben kann zu Schäden führen.
- Achten Sie während der Montage darauf, bei jedem Arbeitsgang alle Schrauben festzuziehen.
- Für die Demontage muß die angegebene Reihenfolge umgekehrt befolgt werden.

### 1 Öffnen Sie den Karton und nehmen Sie alle Teile heraus.

Vergewissern Sie sich, daß alle in der obigen Abbildung aufgeführten Teile vollzählig vorhanden sind.

### 2 Befestigen Sie die Seitenwände (D) am Pedalkasten (C).

Bevor Sie den Pedalkasten montieren, nehmen Sie zunächst das gebündelte Kabel aus dem Pedalkasten, entfernen den Kabelbinder und ziehen das Kabel dann gerade aus. Werfen Sie den Kabelbinder nicht wg, er wird in Schritt 5 wieder gebraucht.

Setzen Sie den Pedalkasten auf die Winkelbleche der beiden Seitenwänden (D), und schrauben Sie ihn dann mit den vier Halbrundschaublen (6 x 20 mm) 1 fest (jeweils zwei Schrauben links und rechts). Achten Sie dabei darauf, daß die Pedale in dieselbe Richtung weisen wie die vorspringenden Teile der Füße.



- 6 x 20 mm round-head screws x 4 ①
- 6 x 20 mm Halbrundsrauben x 4 ①
- Vis à tête ronde de 6 x 20 mm x 4 ①
- Tornillos de cabeza redonda de 6 x 20 mm x 4 ①



- 4 x 12 mm round-head screws x 2 ②
- 4 x 12 mm Halbrundsrauben x 2 ②
- Vis à tête ronde de 4 x 12 mm x 2 ②
- Tornillos de cabeza redonda de 4 x 12 mm x 2 ②

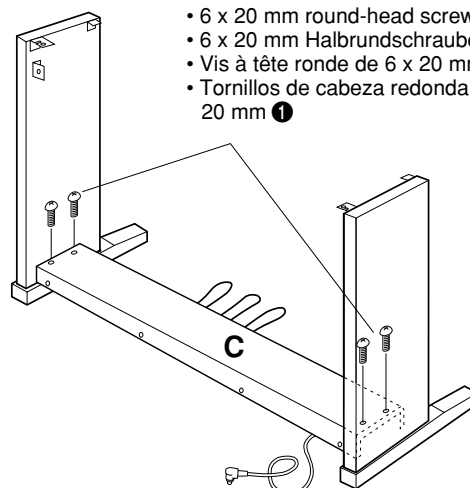


- 4 x 20 mm tapping screws x 4 ③
- 4 x 20 mm Schneidschrauben x 4 ③
- Vis auto-taraudeuses 4 x 20 mm x 4 ③
- Tornillos de autoenroscado de 4 x 20 mm x 4 ③



- 6 x 16 mm flat-head screws x 4 ④
- 6 x 16 mm Senkschrauben x 4 ④
- Vis à tête plate de 6 x 16 mm x 4 ④
- Tornillos de cabeza plana de 6 x 16 mm x 4 ④

# 2



- 6 x 20 mm round-head screws ①
- 6 x 20 mm Halbrundsrauben ①
- Vis à tête ronde de 6 x 20 mm ①
- Tornillos de cabeza redonda de 6 x 20 mm ①

## Montage

### ⚠ PRECAUTION

- Veiller à ne pas mélanger les pièces et à les installer dans le sens correct. Veuillez assembler l'instrument dans l'ordre indiqué ci-dessous.
- La présence de deux personnes minimum est nécessaire pour procéder au montage.
- Toujours utiliser des vis aux dimensions correctes, comme indiqué ci-dessus. L'utilisation de vis aux dimensions incorrectes pourrait en effet endommager l'instrument.
- Resserrer convenablement toutes les vis après le montage de chaque élément.
- Pour démonter le Clavinova, inverser l'ordre des indications données ci-dessous.

### 1 Ouvrez le carton et retirez toutes les pièces

Videz le carton de son contenu. Vérifiez que toutes les pièces indiquées sur l'illustration sont bien fournies.

### 2 Fixez les panneaux latéraux (D) au pédalier (C)

Avant de poser le pédalier, détacher le cordon de la partie inférieure du pédalier et le dérouler. Ne jetez pas l'attache en vinyle, vous la réutiliserez ultérieurement à l'étape 5. Placez le pédalier sur les ferrures fixées aux panneaux latéraux (D) et fixez-le à l'aide des quatre vis à tête ronde de 6 x 20 millimètres ① : deux vis de chaque côté. Veillez à ce que les pédales soient dirigées dans le même sens que les supports inférieurs.

## Montaje

### ⚠ CUIDADO

- Observe cuidado para no confundir las piezas, y asegúrese de montar todas ellas en el sentido correcto. Proceda al montaje en el orden indicado a continuación.
- El montaje deberá realizarse al menos por dos personas.
- Procure utilizar los tornillos del tamaño adecuado, según se indica arriba. El empleo de tornillos inadecuados puede ocasionar daños en el instrumento.
- Asegúrese de apretar bien todos los tornillos después de montar cada unidad.
- Para desmontar las unidades, invierta la secuencia de montaje facilitada a continuación.

### 1 Abra la caja y extraiga todas las partes.

Extraiga todas las partes de la caja. Confirme que no falte ninguna de las partes mostradas en la ilustración.

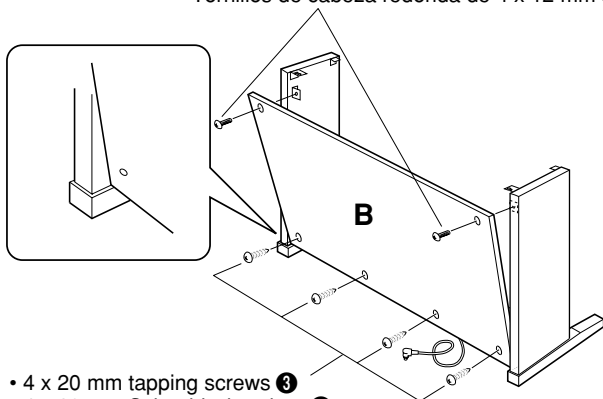
### 2 Acople los paneles laterales (D) en la caja de pedales (C).

Antes de instalar la caja de pedales, desate y enderezca el cable plegado unido a la parte inferior de la caja de pedales. No tire la abrazadera de vinilo, porque la necesitará en el paso 5 de más adelante.

Ponga la caja de pedales en la parte superior de las ménsulas acopladas a los paneles laterales (D), y acople empleando los cuatro tornillos de cabeza redonda de 6 x 20 mm ① ; dos tornillos en cada lado. Asegúrese de que el pedal se extiende en la misma dirección que la pata.

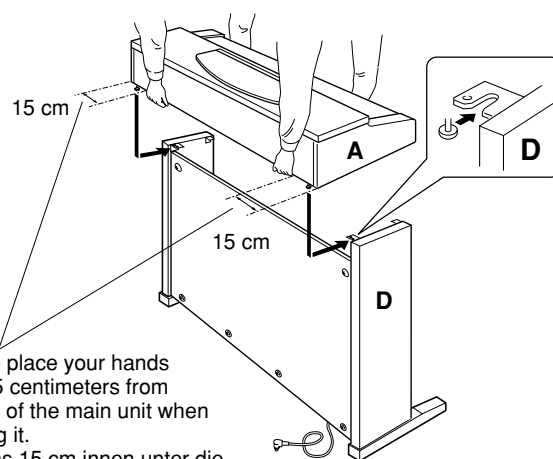
# 3

- 4 x 12 mm round-head screws ②
- 4 x 12 mm Halbrundsrauben ②
- Vis à tête ronde de 4 x 12 mm ②
- Tornillos de cabeza redonda de 4 x 12 mm ②



- 4 x 20 mm tapping screws ③
- 4 x 20 mm Schneidschrauben ③
- Vis auto-taraudeuses 4 x 20 mm ③
- Tornillos de autoenrosque de 4 x 20 mm ③

# 4



- Be sure to place your hands at least 15 centimeters from either end of the main unit when positioning it.
- Mindestens 15 cm innen unter die Tastatureinheit greifen.
- Placez bien vos mains à 15 cm au moins des extrémités du clavier, lors de sa mise en place.
- Asegúrese de colocar las manos por lo menos a 15 centímetros desde los extremos de la unidad principal cuando la sitúe.

## 3 Attach the rear panel (B).

With the rear panel slightly angled as shown in the illustration, lower it onto the feet's protruding edge at the rear of the pedal box. Then, while eliminating any gaps between the rear and side panels, secure the top of the rear panel to the side panel brackets using two 4 x 12 mm round-head screws ②. Finally, secure the bottom of the rear panel to the pedal box using four 4 x 20 mm tapping screws ③.

## 4 Install the main unit (A).

Place the main unit (A) on the side panels (D) with the screws on its bottom panel (toward the rear of the main unit) just behind the grooves in the brackets located at the top of the side panels. Then slide the main unit forward until it stops. **WATCH YOUR FINGERS WHEN DOING THIS!!**

Align the holes on the bottom panel of the main unit with the holes in the brackets on the side panels (also center the main unit to produce equal clearance on the left and right sides, as shown in the illustration), then screw in and securely tighten the four 6 x 16 millimeter flat-head screws ④.

### ⚠ CAUTION

- Do not hold the keyboard in any position other than the position shown in the above illustration.
- Fingers can become pinched between the main unit and the rear or side panels, be extra careful so as not to drop the main unit.

## 5 Connect the pedal cord.

The pedal cord from the pedal box must be plugged into the PEDAL connector on the rear of the main unit. Once connected, attach the cord holders to the rear panel as shown, then clip the cord into the holders.

## 3 Montieren Sie die Rückwand (B).

Setzen Sie die Rückwand leicht abgewinkelt, wie in der Abbildung gezeigt, hinter dem Pedalkasten auf die hervorspringenden Teile der Füße auf. Schrauben Sie dann die Rückwand oben mit zwei 4 x 12 mm Halbrundschrauben ② so an den Seitenwänden fest, daß kein Spiel zwischen Rückwand und Seitenwänden verbleibt. Schrauben Sie die Rückwand abschließend noch mit vier 4 x 20 mm Schneidschrauben ③ an den Pedalkasten.

## 4 Montieren Sie die Tastatureinheit (A).

Setzen Sie die Tastatureinheit (A) so auf den fertigen Ständer, daß die beiden Schrauben an ihrer Unterseite hinter den Winkelblechen mit Führungsschlitz an der Hinterseite des Ständers zu liegen kommen. Schieben Sie die Tastatureinheit dann bis zum Anschlag in die Schlitzze. **KLEMMEN SIE IHRE FINGER DABEI NICHT EIN!!**

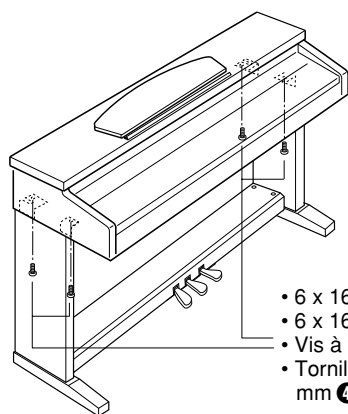
Richten Sie die Schraubenbohrungen an der Unterseite der Tastatureinheit mit den Bohrungen der Winkelbleche aus (achten Sie auch darauf, daß sie mittig auf dem Ständer steht, wie in der Abbildung gezeigt). Schrauben Sie die Tastatureinheit dann mit den vier 6 x 16 mm Senkschrauben ④ am Ständer fest.

### ⚠ VORSICHT

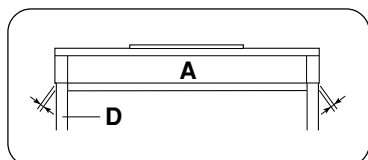
- Halten Sie die Tastatureinheit nur wie in der obigen Abbildung!
- Achten Sie darauf, daß Sie Ihre Finger nicht zwischen Tastatureinheit und den Seitenwänden bzw. der Rückwand einklemmen — die Tastatureinheit könnte dadurch zu Fall kommen!

## 5 Schließen Sie das Pedalkabel an.

Das vom Pedalkasten kommende Kabel muß in die PEDAL-Buchse an der Rückwand der Haupteinheit gesteckt werden. Befestigen Sie dann die Kabelhalter an der Rückwand wie in der Abbildung gezeigt, und klemmen Sie das Kabel in diese Halter.



- 6 x 16 mm flat-head screws ④
- 6 x 16 mm Senkschrauben ④
- Vis à tête plate de 6 x 16 mm ④
- Tornillos de cabeza plana de 6 x 16 mm ④



### ③ Fixez le panneau arrière (B)

En inclinant légèrement en angle le panneau arrière, comme mentionné sur l'illustration, abaissez-le sur le rebord des pieds, à l'arrière du pédalier. Puis, tout en éliminant les espaces entre les panneaux arrière et latéraux, fixez le haut du panneau arrière sur les supports des panneaux latéraux à l'aide de deux vis à tête ronde 4 x 12 mm ②. Et finalement, fixez le bas du panneau arrière au pédalier avec quatre vis auto-taraudeuses 4 x 20 mm ③.

### ④ Posez le clavier (A)

Placez le clavier sur les panneaux latéraux (D), avec les vis de son panneau inférieur (situées vers l'arrière du clavier) placées immédiatement derrière les rainures des ferrures situées à la partie supérieure des panneaux latéraux (D), puis faites glisser le clavier vers l'avant jusqu'à ce qu'il vienne en butée. **FAITES ATTENTION A VOS DOIGTS EN EXECUTANT CETTE OPERATION!!** Alignez les trous du panneau inférieur du clavier sur les trous des ferrures des panneaux latéraux (centrez également le clavier de manière à avoir un jeu identique de chaque côté) puis posez et serrez à fond les quatre vis à tête plate de 6 x 16 millimètres ④.

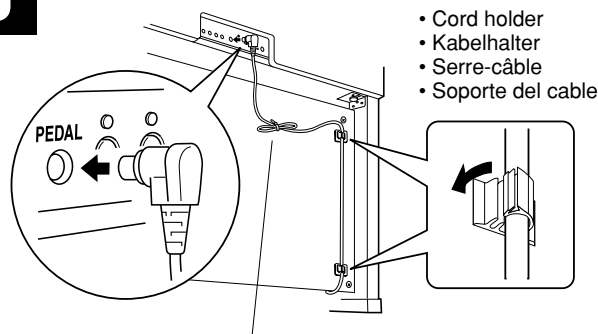
#### ⚠ **PRECAUTION**

- Ne tenez pas le clavier d'une autre manière que celle indiquée sur l'illustration ci-dessus.
- Attention car vous risquez de vous faire pincer les doigts entre le clavier et les panneaux arrière ou latéraux de sorte que vous devez veiller à ne pas faire tomber le clavier.

### ⑤ Raccordez le cordon du pédalier

Le câble qui sort du pédalier doit être branché sur le connecteur PEDAL (PEDALE) à l'arrière du clavier. Une fois raccordé, fixez les serre-fils sur le panneau arrière, comme indiqué, puis faites passer le câble dans les serre-fils.

5



- Use the vinyl tie that was removed from the bundled pedal cord in step ② to tie up any slack in the pedal cord.
- Nehmen Sie überlanges Kabel mit dem in Schritt ② entfernten Kabelbinder auf.
- Utilisez l'attache en vinyle qui a été enlevée du cordon de pédalier à l'étape ② pour attacher le fil excédentaire du cordon de pédalier.
- Emplee la abrazadera de vinilo que se sacó del cable plegado de los pedales en el paso ② para fijar el cable de pedales sobrante.

### ③ Monte el panel trasero (B).

Con el panel trasero un poco inclinado en ángulo como se muestra en la ilustración, bájelo al borde saliente de las patas de la parte posterior de la caja de pedales. Entonces, mientras elimina los huecos entre los paneles trasero y lateral, fije la parte superior del panel trasero a las ménsulas de panel lateral usando dos tornillos de cabeza redonda de 4 x 12 mm ②. Finalmente, fije la parte inferior del panel trasero a la caja de pedales usando cuatro tornillos de autoenroscque de 4 x 20 mm ③.

### ④ Instale la unidad principal (A).

Coloque la unidad principal en los paneles laterales (D) con los tornillos de su panel inferior (hacia la parte posterior de la unidad principal) justo detrás de las ranuras de la ménsula ubicada en la parte superior de los paneles laterales (D), después deslice el teclado hacia adelante hasta que se pare. **¡TENGA CUIDADO CON SUS DE-DOS MIENTRAS LO HACE!**

Alinee los orificios del panel inferior de la unidad principal con los orificios de las ménsulas de los paneles laterales (también centre la unidad principal para producir una holgura igual en los lados derecho e izquierdo, como se muestra en la ilustración), después enroscque y apriete bien los cuatro tornillos de cabeza plana de 6 x 16 mm ④.

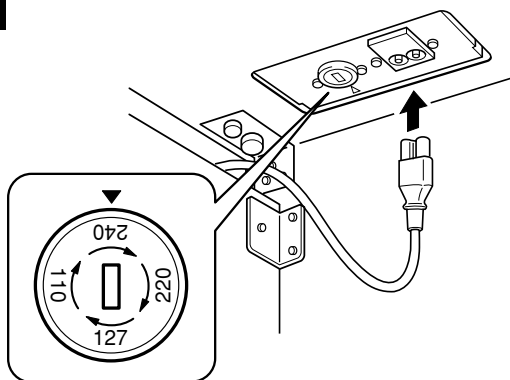
#### ⚠ **CUIDADO**

- No sostenga el teclado en ninguna posición que no sea la posición mostrada en la ilustración de arriba.
- Podría pillarse los dedos ente la unidad principal y los paneles traseros o laterales, por lo que deberá tener mucho cuidado que no se caiga la unidad principal.

### ⑤ Conecte el cable de los pedales.

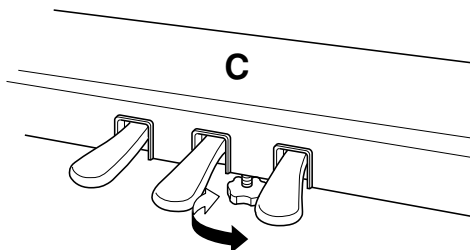
El cable de los pedales procedente de la caja de pedales debe conectarse al conector PEDAL (pedales) situado en la parte posterior de la unidad principal. Una vez conectado, coloque los soportes de cable en el panel trasero de la manera mostrada en la figura y enganche el cable en los soportes.

# 6



- A voltage selector is provided in some areas.
- Spannungswähler (nur in bestimmten Verkaufsgebieten)
- Un sélecteur de tension est prévu pour certaines régions
- El selector de tensión está provisto para ciertos destinos.

# 7



## 6 Voltage Selector

Before connecting the AC power cord, check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a “minus” screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.

After the proper voltage has been selected, slide the AC power cord over the rear panel and connect the cord to the AC INLET, then connect the other end of the cord to an AC wall outlet. A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

### ⚠ CAUTION

- An improper voltage setting can cause serious damage to the CVP-202 or result in improper operation.

## 7 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box (C). Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.

### ■ After completing the assembly, please check the following.

- Are there any parts left over?  
→ Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?  
→ Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?  
→ Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?  
→ Turn the adjuster so that it is set firmly against the floor.
- Are the pedal and power cords inserted securely into the sockets?  
→ Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.

## 6 Den Spannungswähler einstellen.

Bevor Sie nun das Netzkabel anschließen, müssen Sie den Spannungswähler (falls vorhanden) auf die örtliche Netzspannung einstellen. Zum Verstellen drehen Sie den Spannungswähler mit einem Schlitzschraubendreher, bis der richtige Spannungswert (110, 127, 220 oder 240) an der Pfeilmarkierung steht. Bei der Auslieferung werden alle Instrumente mit Spannungswähler auf “240” voreingestellt. Wenn Sie die geeignete Spannung ausgewählt haben, führen Sie das Netzkabel über die Rückwand und stecken ein Ende des Netzkabels in die Gerätebuchse AC INLET (Wechselstrom-Anschluß) und das andere Ende in eine Wandsteckdose.

Einigen Geräten ist ein Adapter zum Anschließen an Wandsteckdosen mit einer anderen Anschlußbelegung beigelegt.

### ⚠ VORSICHT

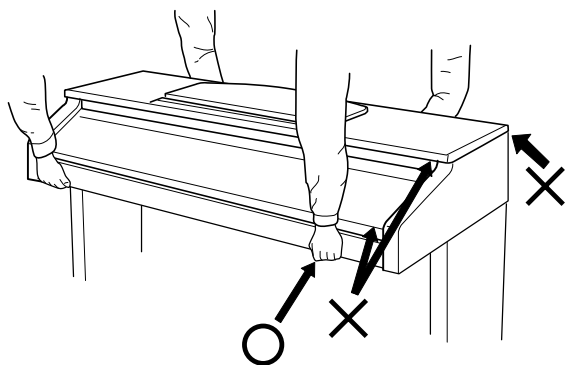
- Ein falsch eingestellter Spannungswähler kann zur Beschädigung des CVP-202 führen oder zu einem unsachgemäßen Betrieb.

## 7 Justieren Sie schließlich noch den Höhenversteller.

Zur Stabilisierung ist an der Unterseite des Pedalkastens (C) ein Höhenversteller vorgesehen. Schrauben Sie den Höhenversteller heraus, bis er fest auf dem Fußboden steht. Der Höhenversteller sorgt für stabile Pedalbetätigung und ermöglicht eine präzise Regelung des Betätigungshubs. Wenn er nicht fest auf dem Boden steht, können beim Treten der Pedale Klangverzerrungen auftreten.

### ■ Wenn der Zusammenbau beendet ist, prüfen Sie bitte folgende Dinge:

- Sind Teile übrig geblieben?  
→ Gehen Sie den Vorgang des Zusammenbaus noch einmal durch und korrigieren Sie eventuelle Fehler.
- Befindet sich das Clavinova weit genug von Türen und anderen beweglichen Vorrichtungen entfernt?  
→ Bewegen Sie das Clavinova an einen entsprechend sicheren Ort.
- Macht das Clavinova Klappergeräusche, wenn Sie es schütteln?  
→ Ziehen Sie alle Schrauben fest.
- Klappert der Pedalkasten oder gibt er nach, wenn Sie das Pedal treten?  
→ Drehen Sie den Höhenversteller, bis er fest auf dem Fußboden steht.
- Sind Pedal- und Netzkabel richtig an den Buchsen angeschlossen?  
→ Prüfen Sie die Verbindung.
- Wenn die Tastatureinheit knarrt oder beim Spielen wackelt, betrachten Sie die Abbildungen und ziehen Sie alle Schrauben noch einmal nach.



### ⚠ CAUTION

- When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the top portion or keyboard cover. Improper handling can result in damage to the instrument or personal injury.

### ⚠ VORSICHT

- Fassen Sie zum Umstellen des Instruments nach dem Zusammenbau stets unter das Gehäuse; heben Sie es NIEMALS am oberen Teil oder an der Tastaturabdeckung. Bei Nichtbeachtung dieses Punkts kann das Instrument beschädigt und im Extremfall eine Verletzung hervorgerufen werden.

### ⚠ PRECAUTION

- Pour déplacer l'instrument après le montage, toujours tenir l'instrument par la surface inférieure, JAMAIS par le dessus ou le couvercle. Une mauvaise manipulation peut provoquer des dommages ou des blessures.

### ⚠ CUIDADO

- Cuando mueva el instrumento después del montaje, sujete siempre la unidad principal por su superficie inferior, NUNCA por la parte superior ni por la cubierta del teclado. La manipulación indebida puede causar daños al instrumento o lesiones al usuario.

## 6 Sélecteur de tension

Avant de connecter le cordon d'alimentation, vérifiez le réglage du sélecteur de tension qui est prévu pour certaines régions. Pour régler le sélecteur sur 110 V, 127 V, 220 V ou 240 V, utilisez un tournevis à lame plate pour tourner le cadran du sélecteur afin de mettre l'indication correspondant à la tension de votre région vis à vis du repère triangulaire situé sur le panneau. Le sélecteur de tension est réglé sur 240 V au départ d'usine.

Après avoir sélectionné la tension qui convient, faites glisser le câble d'alimentation de CA par dessus le panneau arrière et branchez-le dans l'AC INLET (prise de CA), puis branchez l'autre extrémité dans une prise murale de CA. Vous pouvez également dans certains cas avoir recours à un adaptateur de prise en fonction de la configuration des prises murales de CA de votre pays.

### ⚠ PRECAUTION

- Un mauvais réglage de la tension peut gravement endommager le CVP-202 ou entraîner des dysfonctionnements.

## 7 N'oubliez pas de régler la hauteur du pédalier

Pour assurer la stabilité du pédalier (C), un dispositif de réglage a été prévu à sa partie inférieure. Tournez ce dispositif jusqu'à ce qu'il soit en contact ferme avec la surface du sol. Ce dispositif assure la stabilité du pédalier lors de son utilisation et facilite la commande au pied des effets. Si ce dispositif n'est pas en contact ferme avec le sol, il pourra se produire une distorsion du son.

## ■ Lorsque le montage est terminé, veuillez mener à bien les vérifications suivantes.

- Reste-t-il des pièces non utilisées?  
→ Passer en revue la procédure de montage et corriger toute erreur éventuelle.
- Le Clavinova est-il placé à l'écart des portes et de toute autre structure mobile?  
→ Déplacer le Clavinova vers un emplacement approprié.
- Lorsque vous secouez quelque peu le Clavinova, entendez-vous un cliquetis?  
→ Serrer convenablement toutes les vis.
- Le pédalier fait-il du bruit ou s'écarte-t-il lorsque vous appuyez sur les pédales?  
→ Tourner le stabilisateur de sorte que le Clavinova repose fermement sur le sol.
- Les cordons des pédales et d'alimentation sont-ils bien enfoncés dans les prises?  
→ Vérifier toutes les connexions.
- Si la partie principale de l'appareil craque ou est instable lorsque vous jouez sur le clavier, consulter les diagrammes de montage et resserrer toutes les vis.

## 6 Selector de tensión

Antes de conectar el cable de alimentación de CA, compruebe el ajuste del selector de tensión que se incorpora para ciertos destinos. Para ajustar el selector a 110V, 127V, 220V ó 240V de la red de alimentación, emplee un destornillador de cabeza recta "-" para girar el selector de modo que la tensión correcta de su zona aparezca al lado del indicador del panel. El selector de tensión se ajusta a 240V cuando la unidad sale de fábrica.

Cuando haya seleccionado la tensión correcta, deslice el cable de alimentación por encima del panel trasero y conéctelo a la toma AC INLET (entrada de CA); a continuación, conecte el otro extremo del cable a una toma de corriente. En algunos países también podrá suministrarse un adaptador de clavija para permitir su conexión a las tomas de corriente locales.

### ⚠ CUIDADO

- Un ajuste incorrecto de la tensión podrá ocasionar daños graves al instrumento CVP-202 o provocar un funcionamiento defectuoso.

## 7 Asegúrese de ajustar el ajustador.

Para la estabilidad del aparato, se proporciona un ajustador en la parte inferior de la caja de pedales (C). Gire el ajustador hasta que contacte firmemente con el suelo. El ajustador asegura una operación estable de los pedales y facilita el control del efecto de los pedales. Si el ajustador no contacta firmemente con el suelo, puede resultar en sonido distorsionado.

## ■ Cuando haya concluido el montaje, compruebe los siguientes puntos:

- ¿Ha quedado alguna pieza sin instalar?  
→ Revise el procedimiento de montaje y corrija cualquier error que se haya podido cometer.
- ¿Está el Clavinova alejado del recorrido de puertas y muebles?  
→ Traslade el Clavinova a una posición adecuada.
- ¿Suena algún ruido de holgura cuando se mueve el Clavinova?  
→ Apriete con firmeza todos los tornillos.
- ¿Vibra o cede la caja de pedales cuando se pisan los pedales?  
→ Gire el estabilizador hasta que apoye firmemente sobre el suelo.
- ¿Están perfectamente insertados los cables de pedal y alimentación en los conectores?  
→ Revise las conexiones.
- Si la unidad principal cruje o presenta algún signo de inestabilidad cuando se toca el teclado, consulte los esquemas de montaje y vuelva a apretar todos los tornillos.

# Specifications / Technische Daten / Spécifications / Especificaciones



|                                       |        |                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KEYBOARD</b>                       |        | 88 keys (A-1 — C7)                                                                                                                                                                                                                                                                                                                                               |
| <b>TONE GENERATOR</b>                 |        | AWM (Advanced Wave Memory)                                                                                                                                                                                                                                                                                                                                       |
| <b>MAXIMUM SIMULTANEOUS POLYPHONY</b> |        | 64                                                                                                                                                                                                                                                                                                                                                               |
| <b>VOICES</b>                         |        | <b>Clavinova voices:</b> 243<br><b>XG voices:</b> 480 <b>Drum Kits:</b> 14 sets<br><b>Voice Groups:</b> PIANO&HARPSI., E.PIANO, ORGAN&ACCORDION, PERCUSSION, GUITAR, BASS, BRASS, WOOD WIND, STRINGS, CHOIR&PAD, SYNTH., XG<br>Dual, Split                                                                                                                       |
| <b>EFFECTS</b>                        |        | <b>Reverb:</b> 23 types <b>Chorus:</b> 15 types<br><b>Effect:</b> 92 types                                                                                                                                                                                                                                                                                       |
| <b>ACCOMPANIMENT STYLES</b>           |        | <b>Rhythm Styles:</b> 134 <b>Pianist Styles:</b> 36<br><b>Custom Styles:</b> 4<br><b>Style Groups:</b> POP&ROCK, POBALLADS, DANCE, SWING&JAZZ, R&B, COUNTRY, LATIN, MARCH&WORLD, WALTZ, BALLROOM, PIANIST, DISK/CUSTOM<br><b>Controls:</b> Intro, Main A, Main B, Main C, Main D, Auto-fill, Ending, Fade in/out, Synchro, Start/Stop, Tap, Metronome, Tempo -/+ |
| <b>AUTO ACCOMPANIMENT</b>             |        | <b>Music Database:</b> 463<br>Single Finger, Multi Finger, Fingered1, Fingered2, Full Keyboard, Harmony, One Touch Setting, Chord Assist, Synchro Stop, Individual Part Volume Control (Mixer)                                                                                                                                                                   |
| <b>REGISTRATION</b>                   |        | Bank A — E x 4 memory locations (20), Freeze                                                                                                                                                                                                                                                                                                                     |
| <b>SONG PLAY MODE</b>                 |        | Song Playback, Repeat, Volume control of individual Parts (Mixer)<br><b>Controls:</b> Song, Play/Stop, Rewind, Fast forward, Pause<br><b>Guide Control:</b> Easy Play, Next Note, Sound Repeat<br>Lyric Display, Piano Roll Display, Keyboard Guide Lamps                                                                                                        |
| <b>SONG RECORD MODE</b>               |        | Quick Recording, Track Recording, Chord Sequence, Song Name, Track Edit, Initial Edit, Setup Memory                                                                                                                                                                                                                                                              |
| <b>LCD/CONTROLS</b>                   |        | 240 x 64 dot liquid crystal display, Contrast dial, Beat lamp, Function button, Mixer button, Page ◀ ▶ buttons, Direct Access button, LCD buttons, data dial, -/+ buttons, Exit button                                                                                                                                                                           |
| <b>VOLUME CONTROLS</b>                |        | Master volume, Acmp/Song volume                                                                                                                                                                                                                                                                                                                                  |
| <b>DEMO/HELP</b>                      |        | 50 Demo Songs; 5 help languages (English, Japanese, German, French, Spanish)                                                                                                                                                                                                                                                                                     |
| <b>DISK DRIVE</b>                     |        | 3.5-inch micro floppy disk drive                                                                                                                                                                                                                                                                                                                                 |
| <b>PEDAL CONTROLS</b>                 | RIGHT  | Damper                                                                                                                                                                                                                                                                                                                                                           |
|                                       | CENTER | Sostenuto                                                                                                                                                                                                                                                                                                                                                        |
|                                       | LEFT   | Soft, Start/Stop, Harmony, Registration, Registration Freeze, Ending/rit, Break, Break Fill, Bass Hold, Fade In/Out, Effect Variation, Glide                                                                                                                                                                                                                     |
| <b>JACKS AND TERMINALS</b>            |        | PHONES jacks x 2, AUX OUT jacks (L/L+R, R), AUX IN jacks (L/L+R, R), TO HOST terminal, MIDI terminals (IN, OUT, THRU)                                                                                                                                                                                                                                            |
| <b>INPUT/OUTPUT SPECIFICATIONS</b>    |        | <b>AUX OUT:</b> Output Impedance: 600 Ω<br><b>AUX IN:</b> Input Impedance: 10 kΩ; Input Sensitivity: -10 dBm                                                                                                                                                                                                                                                     |
| <b>MAIN AMPLIFIERS</b>                |        | 80W (40W x 2)                                                                                                                                                                                                                                                                                                                                                    |
| <b>SPEAKERS</b>                       |        | 16cm x 2, 5cm x 2                                                                                                                                                                                                                                                                                                                                                |
| <b>DIMENSIONS (W x D x H)</b>         |        | <b>Music rest down:</b> 1394mm x 561mm x 845mm (54-7/8" x 22-1/16" x 33-1/4")<br><b>Music rest up:</b> 1394mm x 561mm x 1017mm (54-7/8" x 22-1/16" x 40-1/16")                                                                                                                                                                                                   |
| <b>WEIGHT</b>                         |        | 56.0kg (123lbs., 7oz.)                                                                                                                                                                                                                                                                                                                                           |

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Clavinova Web site (English only)

<http://www.yamahaclavinova.com/>

Yamaha Manual Library

<http://www2.yamaha.co.jp/manual/english/>

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