Roland Virtual Sound Canvas VSC-55 ‘ÌŒ±”Å

-ÚŽŸ

“Á’·
“®□ìŠÂ‹«
ƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,ÌŽg,¢•û
ƒgƒ‰ƒuƒ‹ƒVƒ…□[ƒeƒBƒ“ƒO Q&A
GMƒVƒXƒeƒ€□^GSƒtƒH□[ƒ}ƒbƒg,É,Â,¢,Ä
ƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒgˆê——•\
ƒhƒ‰ƒ€□EƒZƒbƒgˆê——•\
MIDIƒCƒ“ƒvƒŠƒ□ƒ“ƒe□[ƒVƒ‡ƒ“
Žå,ÈŽd—l

□¦ –{ƒo□[ƒWƒ‡ƒ“,Í□A‘ÌŒ±”Å,Å,·□B

□¦ –{ƒo□[ƒWƒ‡ƒ“,Í□AŽŽ—pŠúŒÀ,ª’è,ß,ç,ê,Ä,¢,Ü,·□BŽŽ—pŠúŒÀ□i,P,X,X,U”N,XŒŽ,R,O“ú□j,ð ‰ß,¬,Ü,µ,½,ç□A‘¬,â,©,ÉƒAƒ“ƒCƒ“ƒXƒg□[ƒ‹,µ,Ä,,¾,³,¢□BƒAƒ“ƒCƒ“ƒXƒg□[ƒ‹•û–@,É,Â,¢ ,Ä,Í□A“Y•t,ÌREADME.TXT,ð,²——,,¾,³,¢□B

“Á’▪

□œ ŠO•”MIDI‰¹Œ¹,âMIDI‰¹Œ¹ƒ{□[ƒh,ð—p,¢,¸,É□AƒTƒEƒ“ƒh‹@”\,ð“‹□Ú,µ,½ƒRƒ“ƒsƒ…□[ƒ^□[,¾,¯,Åƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,ð‰‰‘t,·,é,±,Æ,ª,Å,«,Ü,·□B

□œ ƒRƒ“ƒsƒ…□[ƒ^□[□ã,ÉMIDIƒffƒofCƒX,Æ,µ,Ä□í’“,µ,Ü,·,Ì,Å□AMIDI□î•ñ,ð□o—Í,·,é, ,ç,ä,éƒ~ƒ…□[ƒWƒbƒN□EƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,©,ç,Ì—˜—p,ª‰Â”\,Å,·□B

□œ VSC-55,Í□AGMƒVƒXƒeƒ€,É“K□‡,µ,½‰¹Œ¹,Å,·□BGMƒ}□[ƒN,Ì,Â,¢,½ƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^□iGMƒXƒRƒA□j,Å‰‰‘t,³,¹,é,±,Æ,ª,Å,«,Ü,·□B,Ü,½□AVSC-55,Íƒ□□[ƒ‰ƒ“ƒh,Ì‹¤’ÊŽd—l,Å, ,éGSƒtƒH□[ƒ}ƒbƒg,Ì‰¹Œ¹,Å,·□BGSƒ}□[ƒN,Ì,Â,¢,½Žs”Ì,Ìƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,Å‰‰‘t,·,é,±,Æ,ª,Å,«,Ü,·□B

□œ VSC-55,Í□A16ƒp□[ƒg□Å‘å128ƒ{ƒCƒX,Ìƒ}ƒ‹ƒ`□EƒeƒBƒ“ƒo□[‰¹Œ¹,Å,·□BVSC-55ˆê‘ä,Å‘s‘å,ÈƒAƒ“ƒTƒ“ƒuƒ‹‰‰‘t,ª‰Â”\,Å,·□B

□œ ƒGƒtƒFƒNƒg,Í□AƒŠƒo□[ƒu□AƒR□[ƒ‰ƒX,ª,»,ê,¼,ê8Ží—Þ“‹□Ú,³,ê,Ä,¢,Ü,·□B,»,ê,¼,ê,ÌƒGƒtƒFƒNƒg,²,Æ,É‘½□Ê,Èƒpƒ‰ƒ□□[ƒ^□[,ð‘•”õ,µ□Aãk–§,È‰¹,Ã,,è,ª‰Â”\,Å,·□B

□œ •t‘®,Ìƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒgVSC-55ƒpƒlƒ‹,É,æ,è□Aƒp□[ƒg,²,Æ,ÌƒŒƒxƒ‹•\Ž¦,ª□s,¦,Ü,·□B

□œ ƒRƒ“ƒsƒ…□[ƒ^□[,ÌCPUƒpƒ□□[□è—L“x,ðŽ©—R,É□Ý’è,·,é,±,Æ,ª,Å,«□Aƒ†□[ƒU□[,ÌŠÂ‹«,É□‡,Á,½□«”\,ÉƒJƒXƒ^ƒ}ƒCƒY,Å,«,Ü,·□B

□œ VSC-55,É,æ,Á,Ä‰‰‘t’†,à□A‘¼,ÌƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,©,ç,ÌƒI□[ƒffƒBƒI□Ä□¶,ª‰Â”\,Å,·□B

GMƒVƒXƒeƒ€

GM□iGeneral MIDI□jƒVƒXƒeƒ€,Æ,Í□A‰¹Œ¹,ÌMIDI‹@”\,ÌŽd—l,ð□Aƒ□□[ƒJ□[,ð‰z,¦,Ä•W□€‰»,·,é,±,Æ,ð–Ú“I,Æ,µ,½□„□§‹K’è,Å,·□BGMƒVƒXƒeƒ€,É□‡’v,µ,½‰¹Œ¹,âƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,É,ÍGMƒ}□[ƒN□i□j,ª,Â,¢,Ä,¢,Ü,·□BGM‰¹Œ¹—p,Ìƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^□iGMƒXƒRƒA□j,Í□AGMƒ}□[ƒN,Â,«,Ì‰¹Œ¹,Å, ,ê,Î,Ç,ê,Å,à“¯,¶‰‰‘t•\Œ»,ª,Å,«,Ü,·□B

GSƒtƒH□[ƒ}ƒbƒg

GSƒtƒH□[ƒ}ƒbƒg,Æ,Í□AMIDI,ðŽg—p,µ,Ä‰¹Šy‰‰‘t,·,é□ê□‡,Ì‰¹Œ¹,ÉŠÖ,·,é“®□ì,ð“□ˆê,·,é,±,Æ,ð–Ú“I,Æ,µ,½ƒ□□[ƒ‰ƒ“ƒh,Ì‹¤’ÊŽd—I,Å,·□BGSƒ}□[ƒN□i□j,Ì,Â,¢,½‰¹Œ¹,ðŽg,¤,±,Æ,É,æ,è□AGSƒ}□[ƒN,Ì,Â,¢,½Žs”Ì,Ìƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,ð‰‰‘t,·,é,±,Æ,ª,Å,«,Ü,·□BVSC-55,Í□AGM/GS,Ì—¼•û,É“K□‡,µ,½□»•i,Å,·□B,Ç,¿,ç,Ìƒ}□[ƒN,Ì,Â,¢,½ƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,à‰‰‘t,Å,«,Ü,·□B

ƒt□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,ÌŽg,¢•û

VSC-55,É,ÍŠÈ’P,Èƒt□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒgVSC-55ƒpƒlƒ‹(VSC55.EXE),ª•t‘®,µ,Ä,¢,Ü,·□B,±,Ìƒt□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,Í□AŽå,É^È‰º,Ì,æ,¤,È‹@”\,ð”õ,¦,Ä,¢,Ü,·□B

□œ　VSC-55,ÌŠeŽí□Ý’è,ð□s,¤,±,Æ,ª,Å,«,Ü,·□B

□Å‘å”‰¹□”,â□ACPU□è—L—¦,È,Ç,ª□Ý’è,Å,«,Ü,·□B,Ü,½□AŠÈ’P,ÉƒftƒHƒ‹ƒg,Ì□Ý’è,É–ß,·,±,Æ,à,Å,«,Ü,·□B

□œ　SMF□ifXƒ^ƒ“ƒ_□[ƒhMIDIƒtƒ@ƒCƒ‹□j,ð□Ä□¶,·,é,±,Æ,ª,Å,«,Ü,·□B

Windows 95,Ì□mƒGƒNƒXƒvƒ□□[ƒ‰□n,È,Ç,©,çSMF,ðƒ_ƒuƒ‹□EƒNƒŠƒbƒN,·,é,©□Aƒhƒ‰ƒbƒO□•ƒhƒ□ƒbƒv,·,ê,Î‰‰‘t,ªŠJŽn,Å,«,Ü,·□B

□œ　ƒp□[ƒg□EƒŒƒxƒ‹,âCPU□è—L□ó‘Ô,Ìƒ,ƒjƒ^□[,ª□s,¦,Ü,·□B

‰‰‘t’†□AƒffBƒXƒvƒŒƒC•”•ª,É,Í□Aƒp□[ƒg□EƒŒƒxƒ‹,Ü,½,ÍCPU□è—L—¦,ª•\Ž¦,³,ê,Ü,·□B‰‰‘t,µ,Ä,¢,È,¢ŠÔ,Íƒ□ƒS,ð•\Ž¦,µ,Ü,·□B

VSC-55,Ì□Ú□×,È‹@”\,Ì□à–¾,Å,·□B

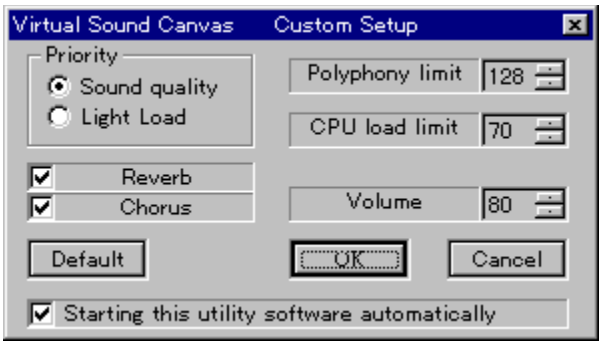
[DEFAULT SETUP] ƒ{ƒ^ƒ“

VSC-55,Ì,³,Ü,´,Ü,È□Ý’è,ðffftƒHƒ‹ƒg□i□‰Šú’l□j□ó‘Ô,É,µ,Ü,·□B

□¦　□mCUSTOM SETUP□nƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,µ,Ä□Ý’èƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX,ðŠJ,«□A□mDefault□nƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,µ,ÄffftƒHƒ‹ƒg,É□Ý’è,µ,½,Æ,«,Æ“¯,¶’l,É,È,è,Ü,·□B

[CUSTOM SETUP] ƒ{ƒ^ƒ“

,±,Ìƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,·,é,Æ□A□Ý’è—pƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX,ªŠJ,«,Ü,·□B



□¦ □ã□},Ì□Ý’èƒ_ƒCƒAƒ□ƒO□Eƒ{ƒbƒNƒX“à,Å,Ì□Ý’è’l,ªƒffƒtƒHƒ‹ƒg,ì’l,Å,·□B

[Priority] - [Sound Quality] ƒIƒvƒVƒ‡ƒ“□Eƒ{ƒ^ƒ“

‰¹Ž¿—D□æƒ,□[ƒh,É,µ,Ü,·□BƒTƒ“ƒvƒŠƒ“ƒOŽü”g□”,Í22.05kHz,É,È,è,Ü,·□B

□¦ ‰¹Ž¿,Í—Ç,,È,è,Ü,·,ª□ACPUƒpƒ□□[,ð‘½,□è—L,µ,Ü,·□B

[Priority] - [Light Load] ƒIƒvƒVƒ‡ƒ“□Eƒ{ƒ^ƒ“

”‰¹□”—D□æ,É,µ,Ü,·□BƒTƒ“ƒvƒŠƒ“ƒOŽü”g□”,Í11.025kHz,É,È,è,Ü,·□B

□¦ CPUƒpƒ□□[,ð, ,Ü,è□è—L,µ,Ü,¹,ñ,ª□A‰¹Ž¿,Í—ò,è,Ü,·□B

[Reverb] ƒ`ƒFƒbƒN□Eƒ{ƒbƒNƒX

ƒŠƒo□[ƒu,ðŽg—p,·,é,©,µ,È,¢,©,ð□Ý’è,µ,Ü,·□B,±

,Ìƒ`ƒFƒbƒN□Eƒ{ƒbƒNƒX,ðƒIƒ“,É,·,é,Æ□AƒŠƒo□[ƒu,ªŽg—p,Å,«,Ü,·□B

□¦ ƒŠƒo□[ƒu,ðŽg—p,·,é,±,Æ,É,æ,è□ACPUƒpƒ□□[,Ì□è—L—¦,ª‘□,¦,Ü,·□B

[Chorus] ƒ`ƒFƒbƒN□Eƒ{ƒbƒNƒX

ƒR□[ƒ‰ƒX,ðŽg—p,·,é,©,µ,È,¢,©,ð□Ý’è,µ,Ü,·□B,±

,Ìƒ`ƒFƒbƒN□Eƒ{ƒbƒNƒX,ðƒIƒ“,É,·,é,Æ□AƒR□[ƒ‰ƒX,ªŽg—p,Å,«,Ü,·□B

□¦ ƒR□[ƒ‰ƒX,ðŽg—p,·,é,±,Æ,É,æ,è□ACPUƒpƒ□□[,Ì□è—L—¦,ª‘□,¦,Ü,·□B

[Polyphony limit]

”‰¹,Å,«,é□Å‘å‰¹□”,ð□Ý’è,µ,Ü,·□B8□`128,Ì”Í^Í,Å□Ý’è,Å,«,Ü,·□B

□¦ ,±,±,Å□Ý’è,µ,½‰¹□”,¾,¯”‰¹,·,é,Ì,É□A□mCPU load limit□n,Å□Ý’è,³,ê,Ä,¢,éƒpƒ□□[^È□ã,Ì”\—Í,ð•K—v,Æ,·,é□ê□‡,Í□A□Ý’è,µ,½’l,æ,è,à□,È,¢‰¹□”,Å”‰¹,³,ê,é,±,Æ,ª, ,è,Ü,·□B,Ü,½□ACPUƒpƒ□□[,É—]—T,ª, ,Á,Ä,à□A,±,±,Å□Ý’è,³,ê,Ä,¢,é□Å‘å‰¹□”,Ü,Å,µ,©”‰¹,µ,Ü,¹,ñ□B

[CPU load limit]

VSC-55,ð“®□ì,³,¹,é,Ì,É□ACPUƒpƒ□□[,Ì‰½ƒp□[ƒZƒ“ƒg,Ü,Å□è—

L,·,é,Ì,©,ð□Ý’è,µ,Ü,·□B20□`90%,Ì”Í^Í,Å□Ý’è,Å,«,Ü,·□B

[Volume]

‰¹—ÊƒŒƒxƒ‹,ð□Ý’è,µ,Ü,·□B0□`100,Ì”Í^Í,Å□Ý’è,Å,«,Ü,·□B

[Default] ƒ{ƒ^ƒ“

□Ý’èƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX“à,Å,Ì□Ý’è,ðƒƒftƒHƒ‹ƒg□i□‰Šú’l□j,É,µ,Ü,·□B

□¦ ƒ□ƒCƒ“‰æ–Ê,Å□mDEFAULT SETUP□nƒ{ƒ^ƒ“,ð‰Ÿ,µ,½,Æ,«,Æ“¯,¶’l,É,È,è,Ü,·□B

[OK] ƒ{ƒ^ƒ“

□Ý’èƒ_ƒCƒAƒ□ƒO□Eƒ{ƒbƒNƒX“à,Å,Ì□Ý’è,Ì•Ï□X,ð•Û‘¶,µ,Ä□Aƒ_ƒCƒAƒ□ƒO□Eƒ{ƒbƒNƒX,ð•Â
,¶,Ü,·□B

[Cancel] ƒ{ƒ^ƒ“

□Ý’èƒ_ƒCƒAƒ□ƒO□Eƒ{ƒbƒNƒX“à,Å,Ì□Ý’è,Ì•Ï□X,ð•Û‘¶,µ,È,¢
,Å□Aƒ_ƒCƒAƒ□ƒO□Eƒ{ƒbƒNƒX,ð•Â,¶,Ü,·□B

[Starting this utility softoware automaticaly] ƒ`ƒFƒbƒN□Eƒ{ƒbƒNƒX

VSC-55,É,æ,Á,Äƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,ð‰
‰‘t,³,¹,½,Æ,«□Aƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,ðŽ©“®“I,É‹N“®,³,¹,é,©,Ç,¤
,©,ð□Ý’è,µ,Ü,·□B,±,Ìƒ`ƒFƒbƒNƒ{ƒbƒNƒX,ðƒIƒ“,É,·,é,Æ□Aƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\
ƒtƒg,ªŽ©“®“I,É‹N“®,µ,Ü,·□B

□¦ ,±,Ì□Ý’è,Í[Default]ƒ{ƒ^ƒ“,â[DEFAULT SETUP]ƒ{ƒ^ƒ“,ð
‰Ÿ,µ,Ä,à□Ý’è,Í•Ï,í,è,Ü,¹,ñ□B□í,Éƒ†□[ƒU,ª□Ý’è,µ,½□ó‘Ô,ð•ÛŽ□,µ,Ä,¢,Ü,·□B

[PLAYER] ƒ{ƒ^ƒ“

,±,Ìƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,·,é,Æ□Aƒvƒ‍Œ□[ƒ„‰æ–Ê,ªŠJ,«,Ü,·□B

[SONGS] ƒ{ƒ^ƒ“

‘I‹Èƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX,ªŠJ,«□ASMF,ð‘I‘ð,µ,Ä‰‰‘t,·,é,±,Æ,ª,Å,«,Ü,·□B

[CLOSE] ƒ{ƒ^ƒ“

ƒvƒŒ□[ƒ„‰æ–Ê,ð•Â,¶,Ü,·□B‰‰‘t’†,ÉƒvƒŒ□[ƒ„‰æ–Ê,ð•Â,¶,Ä,à□A‰‰‘t,ÍŒp‘±,³,ê,Ü,·□B

[REPEAT] ƒ{ƒ^ƒ“

,±,Ìƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,·,é,Æ□AŒJ,è•Ô,µ‰‰‘tƒ,□[ƒh,É,È,è,Ü,·□B□Ä,ÑƒNƒŠƒbƒN,·,é,Æ□AŒJ,è•Ô,µ‰‰‘tƒ,□[ƒh,ð‰ð□œ,µ,Ü,·□B

[HELP] ƒ{ƒ^ƒ“

,±,Ìƒwƒ‹ƒv,ªŠJ,«,Ü,·□B

[LEVEL] ƒ{ƒ^ƒ“

ƒ□ƒCƒ“‰æ–Ê’†‰›,ÌƒƒBƒXƒvƒŒƒC,ðƒŒƒxƒ‹□EƒCƒ“ƒWƒP□[ƒ^□[□Eƒ,□[ƒh,É,µ□Aƒp□[ƒg,²,Æ,Ì‰¹—ÊƒŒƒxƒ‹,ðƒOƒ‰ƒtƒBƒJƒ‹,É•\Ž¦,µ,Ü,·□B

□¦ ‰¹,ª–Â,Á,Ä,¢,È,¢,Æ,«,Í□Aƒ□ƒS,ª•\Ž¦,³,ê,Ü,·□B

[GRAPH] ƒ{ƒ^ƒ“

ƒ□ƒCƒ“‰æ–Ê’†‰›,ÌƒƒBƒXƒvƒŒƒC,ð□ACPU,Ì□è—L—¦,Æ”-‰¹□”,Ì,»,ê,¼,ê,ÌŒ»□Ý’l□A,¨,æ,Ñ□Å‘å’l,ð•\Ž¦,·,éƒ,□[ƒh,É,µ,Ü,·□B□Ô,¢□üƒOƒ‰ƒt,Í□AŒ»□Ý,ÌCPU,Ì•‰‰×,ð•\,í,µ,Ä,¢,Ü,·□B

CPU,Ì□è—L—¦,Æ”‰¹□”,Ì,»,ê,¼,ê,Ì□Å‘å’l,Ì•\Ž¦,Í□A□mLEVEL□nƒ{ƒ^ƒ“,Ü,½,Í□mGRAPH□nƒ{ƒ^ƒ“,ðƒNƒŠƒbƒN,·,é,ÆƒŠƒZƒbƒg,³,ê,Ä0,É,È,è,Ü,·□B

[ABOUT] ƒ{ƒ^ƒ“

ƒhƒ‰ƒCƒo□[,â,±,Ìƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,Ìƒo□[ƒWƒ‡ƒ“□î•ñ,ª•\Ž¦,³,ê,Ü,·□B

ƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒgˆê——•\

piano

chromatic percussion

organ

guitar

bass

strings & orchestral instruments

ensemble

brass

reed

pipe

synth lead

synth pad

synth sfx

ethnic misc.

percussive

sfx

piano

Program #	Bank LSB	Instrument
1 (00H)	0 (00H)	Piano 1
	8 (08H)	Piano 1w
	16 (10H)	Piano 1d
2 (01H)	0 (00H)	Piano 2
	8 (08H)	Piano 2w
3 (02H)	0 (00H)	Piano 3
	8 (08H)	Piano 3w
4 (03H)	0 (00H)	Honky-tonk
	8 (08H)	Honky-tonk w
5 (04H)	0 (00H)	E.Piano 1
	8 (08H)	Detuned EP 1
	16 (10H)	E.Piano 1v
	24 (18H)	60's E.Piano
6 (05H)	0 (00H)	E.Piano 2
	8 (08H)	Detuned EP 2

	16 (10H)	E.Piano 2v
7 (06H)	0 (00H)	Harpsichord
	8 (08H)	Coupled hps.
	16 (10H)	Harpsi.w
	24 (18H)	Harpsi.o
8 (07H)	0 (00H)	Clav.

chromatic percussion

Program #	Bank LSB	Instrument
9 (08H)	0 (00H)	Celesta
10 (09H)	0 (00H)	Glockenspiel
11 (0AH)	0 (00H)	Music Box
12 (0BH)	0 (00H)	Vibraphone
	8 (08H)	Vib.w
13 (0CH)	0 (00H)	Marimba
	8 (08H)	Marimba w
14 (0DH)	0 (00H)	Xylophone
15 (0EH)	0 (00H)	Tubular-bell
	8 (08H)	Church Bell
	9 (09H)	Carillon
16 (0FH)	0 (00H)	Santur

organ

Program #	Bank LSB	Instrument
17 (10H)	0 (00H)	Organ 1
	8 (08H)	Detuned Or.1
	16 (10H)	60's Organ 1
	32 (20H)	Organ 4
18 (11H)	0 (00H)	Organ 2
	8 (08H)	Detuned Or.2
	32 (20H)	Organ 5
19 (12H)	0 (00H)	Organ 3
20 (13H)	0 (00H)	Church Org.1
	8 (08H)	Church Org.2
	16 (10H)	Church Org.3
21 (14H)	0 (00H)	Reed Organ

22 (15H)	0 (00H)	Accordion Fr
	8 (08H)	Accordion It
23 (16H)	0 (00H)	Harmonica
24 (17H)	0 (00H)	Bandoneon

guitar

Program #	Bank LSB	Instrument
25 (18H)	0 (00H)	Nylon-str.Gt
	8 (08H)	Ukulele
	16 (10H)	Nylon Gt.o
	32 (20H)	Nylon Gt.2
26 (19H)	0 (00H)	Steel-str.Gt
	8 (08H)	12-str.Gt
	16 (10H)	Mandolin
27 (1AH)	0 (00H)	Jazz Gt.
	8 (08H)	Hawaiian Gt.
28 (1BH)	0 (00H)	Clean Gt.
	8 (08H)	Chorus Gt.
29 (1CH)	0 (00H)	Muted Gt.
	8 (08H)	Funk Gt.
	16 (10H)	Funk Gt.2
30 (1DH)	0 (00H)	Overdrive Gt
31 (1EH)	0 (00H)	DistortionGt
	8 (08H)	Feedback Gt.
32 (1FH)	0 (00H)	Gt.harmonics
	8 (08H)	Gt. Feedback

bass

Program #	Bank LSB	Instrument
33 (20H)	0 (00H)	Acoustic Bs.
34 (21H)	0 (00H)	Fingered Bs.
35 (22H)	0 (00H)	Picked Bs.
36 (23H)	0 (00H)	Fretless Bs.
37 (24H)	0 (00H)	Slap Bass 1
38 (25H)	0 (00H)	Slap Bass 2
39 (26H)	0 (00H)	Synth Bass 1

	1 (01H)	SynthBass101
	8 (08H)	Synth Bass 3
40 (27H)	0 (00H)	Synth Bass 2
	8 (08H)	Synth Bass 4
	16 (10H)	Rubber Bass

strings & orchestral instruments

Program #	Bank LSB	Instrument
41 (28H)	0 (00H)	Violin
	8 (08H)	Slow Violin
42 (29H)	0 (00H)	Viola
43 (2AH)	0 (00H)	Cello
44 (2BH)	0 (00H)	Contrabass
45 (2CH)	0 (00H)	Tremolo Str
46 (2DH)	0 (00H)	PizzicatoStr
47 (2EH)	0 (00H)	Harp
48 (2FH)	0 (00H)	Timpani

ensemble

Program #	Bank LSB	Instrument
49 (30H)	0 (00H)	Strings
	8 (08H)	Orchestra
50 (31H)	0 (00H)	Slow Strings
51 (32H)	0 (00H)	Syn.Strings1
	8 (08H)	Syn.Strings3
52 (33H)	0 (00H)	Syn.Strings2
53 (34H)	0 (00H)	Choir Aahs
	32 (20H)	Choir Aahs 2
54 (35H)	0 (00H)	Voice Oohs
55 (36H)	0 (00H)	SynVox
56 (37H)	0 (00H)	Orchestrahit

brass

Program #	Bank LSB	Instrument
57 (38H)	0 (00H)	Trumpet
58 (39H)	0 (00H)	Trombone

	1 (01H)	Trombone 2
59 (3AH)	0 (00H)	Tuba
60 (3BH)	0 (00H)	MutedTrumpet
61 (3CH)	0 (00H)	French horns
	1 (01H)	French horn2
62 (3DH)	0 (00H)	Brass 1
	8 (08H)	Brass 2
63 (3EH)	0 (00H)	Synth Brass1
	8 (08H)	Synth Brass3
	16 (10H)	AnalogBrass1
64 (3FH)	0 (00H)	Synth Brass2
	8 (08H)	Synth Brass4
	16 (10H)	AnalogBrass2

reed

Program #	Bank LSB	Instrument
65 (40H)	0 (00H)	Soprano Sax
66 (41H)	0 (00H)	Alto Sax
67 (42H)	0 (00H)	Tenor Sax
68 (43H)	0 (00H)	Baritone Sax
69 (44H)	0 (00H)	Oboe
70 (45H)	0 (00H)	English horn
71 (46H)	0 (00H)	Bassoon
72 (47H)	0 (00H)	Clarinet

pipe

Program #	Bank LSB	Instrument
73 (48H)	0 (00H)	Piccolo
74 (49H)	0 (00H)	Flute
75 (4AH)	0 (00H)	Recorder
76 (4BH)	0 (00H)	Pan Flute
77 (4CH)	0 (00H)	Bottle Blow
78 (4DH)	0 (00H)	Shakuhachi
79 (4EH)	0 (00H)	Whistle
80 (4FH)	0 (00H)	Ocarina

synth lead

Program #	Bank LSB	Instrument
81 (50H)	0 (00H)	Square Wave
	1 (01H)	Square
	8 (08H)	Sine Wave
82 (51H)	0 (00H)	Saw Wave
	1 (01H)	Saw
	8 (08H)	Doctor Solo
83 (52H)	0 (00H)	Syn.Calliope
84 (53H)	0 (00H)	Chiffer Lead
85 (54H)	0 (00H)	Charang
86 (55H)	0 (00H)	Solo Vox
87 (56H)	0 (00H)	5th Saw Wave
88 (57H)	0 (00H)	Bass & Lead

synth pad

Program #	Bank LSB	Instrument
89 (58H)	0 (00H)	Fantasia
90 (59H)	0 (00H)	Warm Pad
91 (5AH)	0 (00H)	Polysynth
92 (5BH)	0 (00H)	Space Voice
93 (5CH)	0 (00H)	Bowed Glass
94 (5DH)	0 (00H)	Metal Pad
95 (5EH)	0 (00H)	Halo Pad
96 (5FH)	0 (00H)	Sweep Pad

synth sfx

Program #	Bank LSB	Instrument
97 (60H)	0 (00H)	Ice Rain
98 (61H)	0 (00H)	Soundtrack
99 (62H)	0 (00H)	Crystal
	1 (01H)	Syn Mallet
100 (63H)	0 (00H)	Atmosphere
101 (64H)	0 (00H)	Brightness
102 (65H)	0 (00H)	Goblin
103 (66H)	0 (00H)	Echo Drops

	1 (01H)	Echo Bell
	2 (02H)	Echo Pan
104 (67H)	0 (00H)	Star Theme

ethnic misc.

Program #	Bank LSB	Instrument
105 (68H)	0 (00H)	Sitar
	1 (01H)	Sitar 2
106 (69H)	0 (00H)	Banjo
107 (6AH)	0 (00H)	Shamisen
108 (6BH)	0 (00H)	Koto
	8 (08H)	Taisho Koto
109 (6CH)	0 (00H)	Kalimba
110 (6DH)	0 (00H)	Bagpipe
111 (6EH)	0 (00H)	Fiddle
112 (6FH)	0 (00H)	Shanai

percussive

Program #	Bank LSB	Instrument
113 (70H)	0 (00H)	Tinkle Bell
114 (71H)	0 (00H)	Agogo
115 (72H)	0 (00H)	Steel Drums
116 (73H)	0 (00H)	Woodblock
	8 (08H)	Castanets
117 (74H)	0 (00H)	Taiko
	8 (08H)	Concert BD
118 (75H)	0 (00H)	Melo. Tom 1
	8 (08H)	Melo. Tom 2
119 (76H)	0 (00H)	Synth Drum
	8 (08H)	808 Tom
	9 (09H)	Elec Perc
120 (77H)	0 (00H)	Reverse Cym.

sfx

Program #	Bank LSB	Instrument
121 (78H)	0 (00H)	Gt.FretNoise

	1 (01H)	Gt.Cut Noise
	2 (02H)	String Slap
122 (79H)	0 (00H)	Breath Noise
	1 (01H)	Fl.Key Click
123 (7AH)	0 (00H)	Seashore
	1 (01H)	Rain
	2 (02H)	Thunder
	3 (03H)	Wind
	4 (04H)	Stream
	5 (05H)	Bubble
124 (7BH)	0 (00H)	Bird
	1 (01H)	Dog
	2 (02H)	Horse-Gallop
	3 (03H)	Bird 2
125 (7CH)	0 (00H)	Telephone 1
	1 (01H)	Telephone 2
	2 (02H)	DoorCreaking
	3 (03H)	Door
	4 (04H)	Scratch
	5 (05H)	Windchime
126 (7DH)	0 (00H)	Helicopter
	1 (01H)	Car-Engine
	2 (02H)	Car-Stop
	3 (03H)	Car-Pass
	4 (04H)	Car-Crash
	5 (05H)	Siren
	6 (06H)	Train
	7 (07H)	Jetplane
	8 (08H)	Starship
	9 (09H)	Burst Noise
127 (7EH)	0 (00H)	Applause
	1 (01H)	Laughing
	2 (02H)	Screaming
	3 (03H)	Punch
	4 (04H)	Heart Beat
	5 (05H)	Footsteps

128 (7FH)	0 (00H)	Gun Shot
	1 (01H)	Machine Gun
	2 (02H)	Lasergun
	3 (03H)	Explosion

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Prog#	Drun Set Name
1 (00H)	Standard Set
9 (08H)	Room Set
17 (10H)	Power Set
25 (18H)	Electronic Set
26 (19H)	TR-808 Set
33 (20H)	Jazz Set
41 (28H)	Brush Set
49 (30H)	Orchestra Set
57 (38H)	SFX Set

STANDARD Set

Note Number	Instrument	
D#1 (27)	High Q	
E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Kick Drum2	
C 2 (36)	Kick Drum1	
C#2 (37)	Side Stick	
D 2 (38)	Snare Drum1	
D#2 (39)	Hand Clap	
E 2 (40)	Snare Drum2	
F 2 (41)	Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Mid Tom1	

C 3 (48)	High Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	High Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	

C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

ROOM Set

Note Number	Instrument	
D#1 (27)	High Q	
E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Kick Drum2	
C 2 (36)	Kick Drum1	
C#2 (37)	Side Stick	
D 2 (38)	Snare Drum1	
D#2 (39)	Hand Clap	
E 2 (40)	Snare Drum2	
F 2 (41)	Room Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Room Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Room Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Room Mid Tom1	
C 3 (48)	Room Hi Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	Room Hi Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	

G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

POWER Set

Note Number	Instrument
D#1 (27)	High Q

E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Kick Drum2	
C 2 (36)	MONDO Kick	
C#2 (37)	Side Stick	
D 2 (38)	Gated SD	
D#2 (39)	Hand Clap	
E 2 (40)	Snare Drum2	
F 2 (41)	Room Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Room Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Room Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Room Mid Tom1	
C 3 (48)	Room Hi Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	Room Hi Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	

E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

ELECTRONIC Set

Note Number	Instrument
D#1 (27)	High Q
E 1 (28)	Slap
F 1 (29)	Scratch Push
F#1 (30)	Scratch Pull
G 1 (31)	Sticks
G#1 (32)	Square Click
A 1 (33)	Metronome Click
A#1 (34)	Metronome Bell
B 1 (35)	Kick Drum2

C 2 (36)	Elec BD	
C#2 (37)	Side Stick	
D 2 (38)	Elec SD	
D#2 (39)	Hand Clap	
E 2 (40)	Gated SD	
F 2 (41)	Elec Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Elec Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Elec Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Elec Mid Tom1	
C 3 (48)	Elec Hi Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	Elec Hi Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Reverse Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	

C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

TR-808 Set

Note Number	Instrument	
D#1 (27)	High Q	
E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Kick Drum2	
C 2 (36)	808 Bass Drum	
C#2 (37)	808 Rim Shot	
D 2 (38)	808 Snare Drum	
D#2 (39)	Hand Clap	
E 2 (40)	Snare Drum2	
F 2 (41)	808 Low Tom2	
F#2 (42)	808 CHH	[EXC1]
G 2 (43)	808 Low Tom1	

G#2 (44)	808 CHH	[EXC1]
A 2 (45)	808 Mid Tom2	
A#2 (46)	808 OHH	[EXC1]
B 2 (47)	808 Mid Tom1	
C 3 (48)	808 Hi Tom2	
C#3 (49)	808 Cymbal	
D 3 (50)	808 Hi Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	808 Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	808 High Conga	
D#4 (63)	808 Mid Conga	
E 4 (64)	808 Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	808 Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	808 Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]

G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

JAZZ Set

Note Number	Instrument	
D#1 (27)	High Q	
E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Jazz BD2	
C 2 (36)	Jazz BD1	
C#2 (37)	Side Stick	
D 2 (38)	Snare Drum1	
D#2 (39)	Hand Clap	
E 2 (40)	Snare Drum2	
F 2 (41)	Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Mid Tom1	
C 3 (48)	High Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	High Tom1	
D#3 (51)	Ride Cymbal1	

E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

BRUSH Set

Note Number	Instrument	
D#1 (27)	High Q	
E 1 (28)	Slap	
F 1 (29)	Scratch Push	
F#1 (30)	Scratch Pull	
G 1 (31)	Sticks	
G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Jazz BD2	
C 2 (36)	Jazz BD1	
C#2 (37)	Side Stick	
D 2 (38)	Brush Tap	
D#2 (39)	Brush Slap	
E 2 (40)	Brash Swirl	
F 2 (41)	Low Tom2	
F#2 (42)	Closed Hi-hat	[EXC1]
G 2 (43)	Low Tom1	
G#2 (44)	Pedal Hi-hat	[EXC1]
A 2 (45)	Mid Tom2	
A#2 (46)	Open Hi-hat	[EXC1]
B 2 (47)	Mid Tom1	
C 3 (48)	High Tom2	
C#3 (49)	Crash Cymbal1	
D 3 (50)	High Tom1	
D#3 (51)	Ride Cymbal1	
E 3 (52)	Chinese Cymbal	
F 3 (53)	Ride Bell	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Crash Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Ride Cymbal2	

C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	
G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	
C 5 (72)	Long Low Whistle	
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]

ORCHESTRA Set

Note Number	Instrument
D#1 (27)	Closed Hi-hat
E 1 (28)	Pedal Hi-hat
F 1 (29)	Open Hi-hat
F#1 (30)	Ride Cymbal1
G 1 (31)	Sticks

G#1 (32)	Square Click	
A 1 (33)	Metronome Click	
A#1 (34)	Metronome Bell	
B 1 (35)	Concert BD2	
C 2 (36)	Concert BD1	
C#2 (37)	Side Stick	
D 2 (38)	Concert SD	
D#2 (39)	Castanets	
E 2 (40)	Concert SD	
F 2 (41)	Timpani F	
F#2 (42)	Timpani F#	[EXC1]
G 2 (43)	Timpani G	
G#2 (44)	Timpani G#	[EXC1]
A 2 (45)	Timpani A	
A#2 (46)	Timpani A#	[EXC1]
B 2 (47)	Timpani B	
C 3 (48)	Timpani c	
C#3 (49)	Timpani c#	
D 3 (50)	Timpani d	
D#3 (51)	Timpani d#	
E 3 (52)	Timpani e	
F 3 (53)	Timpani f	
F#3 (54)	Tambourine	
G 3 (55)	Splash Cymbal	
G#3 (56)	Cowbell	
A 3 (57)	Concert Cymbal2	
A#3 (58)	Vibra-slap	
B 3 (59)	Concert Cymbal1	
C 4 (60)	High Bongo	
C#4 (61)	Low Bongo	
D 4 (62)	Mute High Conga	
D#4 (63)	Open High Conga	
E 4 (64)	Low Conga	
F 4 (65)	High Timbale	
F#4 (66)	Low Timbale	
G 4 (67)	High Agogo	

G#4 (68)	Low Agogo	
A 4 (69)	Cabasa	
A#4 (70)	Maracas	
B 4 (71)	Short Hi Whistle	[EXC2]
C 5 (72)	Long Low Whistle	[EXC2]
C#5 (73)	Short Guiro	
D 5 (74)	Long Guiro	
D#5 (75)	Claves	
E 5 (76)	High Wood Block	
F 5 (77)	Low Wood Block	
F#5 (78)	Mute Cuica	[EXC4]
G 5 (79)	Open Cuica	[EXC4]
G#5 (80)	Mute Triangle	[EXC5]
A 5 (81)	Open Triangle	[EXC5]
A#5 (82)	Shaker	
B 5 (83)	Jingle Bell	
C 6 (84)	Bell Tree	
C#6 (85)	Castanets	
D 6 (86)	Mute Surdo	[EXC6]
D#6 (87)	Open Surdo	[EXC6]
E 6 (88)	Applause	

SFX Set

Note Number	Instrument	
D#2 (39)	High Q	
E 2 (40)	Slap	
F 2 (41)	Scratch Push	[EXC7]
F#2 (42)	Scratch Pull	[EXC7]
G 2 (43)	Sticks	
G#2 (44)	Square Click	
A 2 (45)	Metronome Click	
A#2 (46)	Metronome Bell	
B 2 (47)	Guitar Fret Noise	
C 3 (48)	Guitar cuttingnoise/up	
C#3 (49)	Guitar cutting noise/down	
D 3 (50)	String slap of double bass	

D#3	(51)	Fl.Key Click
E 3	(52)	Laughing
F 3	(53)	Scream
F#3	(54)	Punch
G 3	(55)	Heart Beat
G#3	(56)	Footsteps1
A 3	(57)	Footsteps2
A#3	(58)	Applause
B 3	(59)	Door Creaking
C 4	(60)	Door
C#4	(61)	Scratch
D 4	(62)	Wind Chimes
D#4	(63)	Car-Engine
E 4	(64)	Car-Stop
F 4	(65)	Car-Pass
F#4	(66)	Car-Crash
G 4	(67)	Siren
G#4	(68)	Train
A 4	(69)	Jetplane
A#4	(70)	Helicopter
B 4	(71)	Starship
C 5	(72)	Gun Shot
C#5	(73)	Machine Gun
D 5	(74)	Lasergun
D#5	(75)	Explosion
E 5	(76)	Dog
F 5	(77)	Horse-Gallop
F#5	(78)	Birds
G 5	(79)	Rain
G#5	(80)	Thunder
A 5	(81)	Wind
A#5	(82)	Seashore
B 5	(83)	Stream
C 6	(84)	Bubble

’□: [EXC?]: “¯,¶EXC”Ô□†,Ì‘ÅŠyŠí,í“¯Žž,É,Í–Â,è,Ü,¹,ñ□B

MIDIƒCƒ“ƒvƒŠƒ□ƒ“ƒe□[ƒVƒ‡ƒ“

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5	□~	□› *1	ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□Eƒ^ƒCƒ€
6, 38	□~	□› *1	ƒf□[ƒ^□EƒGƒ“ƒgƒŠ-
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65	□~	□› *1	ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg
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91	□~	□› (Reverb) *1	”Ä—pƒGƒtƒFƒNƒg1
93	□~	□› (Chorus) *1	”Ä—pƒGƒtƒFƒNƒg3

98, 99	□~	□~ *1	NRPN LSB, MSB
100, 101	□~	□› *1	RPN LSB, MSB
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”ő□I *1 □› □~ □Ø,èŠ·,¡‰Â”\

*2 M□,1,Ì□ê□‡,àM=1,Æ,µ,Äˆµ,¤

ƒ,□[ƒh 1□FƒIƒ€ƒj□EƒIƒ“□AƒIƒŠ ƒ,□[ƒh 2□FƒIƒ€ƒj□EƒIƒ“□Aƒ‚ƒm □›□F, ,è

ƒ,□[ƒh 3□FƒIƒ€ƒj□EƒIƒt□AƒIƒŠ ƒ,□[ƒh 4□FƒIƒ€ƒj□EƒIƒt□Aƒ‚ƒm □~□F,È,µ

Žó□Mƒƒ□[ƒ^

□¡ƒ`ƒƒ“ƒIƒ‹□Eƒ{ƒCƒX□Eƒ□ƒbƒZ□[ƒW

□œƒm□[ƒg□EƒIƒt

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
8nH	kkH	vvH
9nH	kkH	00H

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

kk = ƒm□[ƒg□Eƒiƒ“ƒo□[□F00H-7FH□i0-127□j

vv = ƒm□[ƒg□EƒIƒt□Eƒxƒ□ƒVƒeƒB□[□F00H-7FH□i0-127□j

□¦ ƒhƒ‰ƒ€□Eƒp□[ƒg,Å,Í□AŠeƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,É,Â,¢,ÄRx.NOTE OFF = ON,Ì,Æ,«Žó□M,µ,Ü,·□B
□¦ ƒm□[ƒg□EƒIƒt□Eƒ□ƒbƒZ□[ƒW,Ìƒxƒ□ƒVƒeƒB□[,Ì'I,Í–³Ž‹,µ,Ü,·□B

□œƒm□[ƒg□EƒIƒ“

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
9nH	kkH	vvH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
kk = ƒm□[ƒg□Eƒiƒ“ƒo□[□F00H-7FH□i0-127□j
vv = ƒm□[ƒg□EƒIƒ“□Eƒxƒ□ƒVƒeƒB□[□F01H-7FH□i1-127□j

□¦ Rx.NOTE MESSAGE = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý'è'I,ÍON□j
□¦ ƒhƒ‰ƒ€□Eƒp□[ƒg,Å,Í□AŠeƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,É,Â,¢,ÄRx.NOTE ON =
OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B

□œƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW
□¦ Rx.CONTROL CHANGE =
OFF,Ì,Æ,«,Í□Aƒ`ƒƒ“ƒIƒ‹□Eƒ,□[ƒh□Eƒ□ƒbƒZ□[ƒWˆÈŠO,ÌƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,ðŽó□M,µ,Ü,¹,ñ□B
□¦ ƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,Å□Ý'è,³,ê,½'I,Í□Aƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW"™,ðŽó□M,µ,Ä,à□
‰Šú□Ý'è'I,ÉƒŠƒZƒbƒg,³,ê,Ü,¹,ñ□B

□›ƒoƒ“ƒN□EƒZƒŒƒNƒg□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[0, 32□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	00H	mmH
BnH	20H	llH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
mm, ll = ƒoƒ“ƒN□Eƒiƒ“ƒo□[□F00 00H - 7F 7FH□ibank.1-bank.16384□j□A
□@□‰Šú□Ý'è'I = 00 00H□ibank.1□j

□¦ Rx.BANK SELECT = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B
□¦ GMƒVƒXƒeƒ€□EƒIƒ“",ðŽó□M,·,é,ÆRx.BANK SELECT =
OFF,É,È,è□Aƒoƒ“ƒN□EƒZƒŒƒNƒg,ðŽó□M,µ,Ü,¹,ñ□B
□¦ "dŒ¹"Š"üŽž□A,¨,æ,Ñ"GSƒŠƒZƒbƒg",ðŽó□M,µ,½,Æ,«,ÍRx.BANK SELECT = ON,É,È,è,Ü,·□B

□¦ –{‹@,Å,Íƒof“ƒN□Eƒiƒ“ƒo□[,Ì‰ºˆÊƒofCƒg□iIIH□j,Í–³Ž‹,µ,Ü,·□iIIH,Í00H,Æ,µ,Ä□ˆ—□,µ,Ü,·□j□B,µ,©,µ□Aƒof“ƒN□EƒZƒŒƒNƒg,ð‘—□M,·,é,Æ,«,Í•K,¸□ãˆÊƒofCƒg□immH□j,Æ‰ºˆÊƒofCƒg□iIIH□G’I,Í00H,Æ,µ,Ä,,¾,³,¢□j,Ì—¼•û,ð‘—□M,µ,Ä,,¾,³,¢□B

□¦ ƒvƒ□ƒOƒ‰f€□Eƒ`ƒFƒ“ƒW,ðŽó□M,·,é,Ü,Å□Aƒof“ƒN□EƒZƒŒƒNƒg,Ì□ˆ—□,Í•Û—¯,³,ê,Ü,·□B

□¦ GSƒtƒH□[ƒ}ƒbƒg,Ì□uƒofŠƒG□[ƒVƒ‡ƒ“□Eƒiƒ“ƒo□[□v,Í□Aƒof“ƒN□EƒZƒŒƒNƒg,Ì□ãˆÊƒofCƒg□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[0□j,Ì’I,ð□\□i•\‹L,µ,½,à,Ì,Å,·□B

□›ƒ‚ƒWƒ…ƒŒ□[ƒVƒ‡ƒ“□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[1□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	01H	vvH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒ‚ƒWƒ…ƒŒ□[ƒVƒ‡ƒ“□EƒffƒvƒX □F00H-7FH□i0-127□j

□¦ Rx.MODULATION = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B

□¦ Œø‰Ê,Ì“à—e,ÍƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,Å□Ý’è,µ,Ü,·□B□‰Šú□Ý’è,Íƒsƒbƒ`□Eƒ‚ƒWƒ…ƒŒ□[ƒVƒ‡ƒ“□EƒffƒvƒX,Å,·□B

□›ƒIƒ‹ƒ^ƒ□ƒ“ƒg□Eƒ^ƒCƒ€□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[5□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	05H	vvH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒIƒ‹ƒ^ƒ□ƒ“ƒg□Eƒ^ƒCƒ€ □F00H-7FH□i0-127□j□A□‰Šú□Ý’è’I = 00H□i0□j

□¦ ƒIƒ‹ƒ^ƒ□ƒ“ƒg□EƒIƒ“,Ì,Æ,«□A,Ü,½,ÍƒIƒ‹ƒ^ƒ□ƒ“ƒg□EƒRƒ“ƒgƒ□□[ƒ‹Žg—pŽž,Ìƒsƒbƒ`•Ï‰»‘¬“x,ð’²□ß,Å,«,Ü,·□B0,ÌŽž,É□Å,à‘¬,,È,è,Ü,·□B

□›ƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[6, 38□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	06H	mmH
BnH	26H	llH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

mm, ll = RPN□^NRPN,ÅŽw’è,³,ê,½ƒpƒ‰ƒ□□[ƒ^□[,É‘Î,·,é’I

mm = □ãˆÊƒofCƒg□iMSB□j□All = ‰ºˆÊƒofCƒg□iLSB□j

□›ƒ{ƒŠƒ…□[ƒ€□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[7□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	07H	vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒ{ƒŠƒ…□[ƒ€ □F00H-7FH□i0-127□j□A□‰Šú□Ý’è’l = 64H□i100□j

□¦ ƒ{ƒŠƒ…□[ƒ€□Eƒ□ƒbƒZ□[ƒW,Í□AŠeƒp□[ƒg,Ì‰¹—Êƒof‰ƒ“ƒX,ð□Ý’è,·,é,Ì,ÉŽg,¢,Ü,·□B

□¦ Rx.VOLUME = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B

□›ƒpƒ“ƒ|ƒbƒg□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[10□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	0AH	vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒpƒ“ƒ|ƒbƒg □F00H-40H-7FH□i□¶-’†‰›-‰E□j□A
□@□‰Šú□Ý’è’l = 40H□i’†‰›□j

□¦ ƒŠƒYƒ€□Eƒp□[ƒg,Å,Í□AŠeƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,Ìƒpƒ“□Ý’è,ð‘Š‘Î“I,É•Ï‰»,³,¹,Ü,·□B

□¦ Rx.PANPOT = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□›ƒGƒNƒXƒvƒŒƒbƒVƒ‡ƒ“□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[11□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	0BH	vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒGƒNƒXƒvƒŒƒbƒVƒ‡ƒ“ □F00H-7FH□i0-127□j□A□‰Šú□Ý’è’l = 7FH□i127□j

□¦ ƒp□[ƒg,Ì‰¹—Ê,ð’²□ß,µ,Ü,·□Bƒ{ƒŠƒ…□[ƒ€□Eƒ□ƒbƒZ□[ƒW,Æ,Í“Æ—§,µ,ÄŽg—
p,Å,«,Ü,·□BƒGƒNƒXƒvƒŒƒbƒVƒ‡ƒ“□Eƒ□ƒbƒZ□[ƒW,Í□AƒGƒNƒXƒvƒŒƒbƒVƒ‡ƒ“□Eƒyƒ_ƒ‹□AƒNƒŒƒbƒVƒFƒ“ƒ
h□AƒffNƒŒƒbƒVƒFƒ“ƒh,È,Ç□A‰‰‘t’†,Ì—}—g•\Œ»,ÉŽg—p,µ,Ü,·□B

□¦ Rx.EXPRESSION = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□›ƒz□[ƒ‹ƒh1□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[64□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg

BnH 40H vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
vv = ƒRƒ“ƒgƒ□□[ƒ‹’l □F00H-7FH□i0-127□j 0-63 = OFF□A64-127 = ON

□¦ Rx.HOLD1 = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□›ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[65□j
fXƒe□[ƒ^ƒX ‘æ2ƒofCƒg ‘æ3ƒofCƒg
BnH 41H vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
vv = ƒRƒ“ƒgƒ□□[ƒ‹’l □F00H-7FH□i0-127□j 0-63 = OFF□A64-127 = ON

□¦ Rx.PORTAMENTO = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□›ƒ\ƒXƒeƒk□[ƒg□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[66□j
fXƒe□[ƒ^ƒX ‘æ2ƒofCƒg ‘æ3ƒofCƒg
BnH 42H vvH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
vv = ƒRƒ“ƒgƒ□□[ƒ‹’l □F00H-7FH□i0-127□j 0-63 = OFF□A64-127 = ON

□¦ Rx.SOSTENUTO = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□›ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□EƒRƒ“ƒgƒ□□[ƒ‹□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[84□j
fXƒe□[ƒ^ƒX ‘æ2ƒofCƒg ‘æ3ƒofCƒg
BnH 54H kkH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
kk = ƒ\□[ƒX□Eƒm□[ƒg□Eƒiƒ“ƒo□[□F00H-7FH□i0-127□j

□¦ ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□EƒRƒ“ƒgƒ□□[ƒ‹’¼Œã,ÉŽó□M,µ,½ƒm□[ƒg□EƒIƒ“,Í□Aƒ\
□[ƒX□Eƒm□[ƒg□Eƒiƒ“ƒo□[,Ìƒsƒbƒ`,©,ç˜A‘±“I,Éƒsƒbƒ`,ª•Ï‰»,µ,Ä”‰¹,µ,Ü,·□B
□¦ ƒ\□[ƒX□Eƒm□[ƒg□Eƒiƒ“ƒo□[,Æ“™,µ,¢ƒm□[ƒg□Eƒiƒ“ƒo□[,Å,·,Å,É”‰¹,µ,Ä,¢,éƒ{ƒCƒX,ª, ,é□ê□‡□A,±
,Ìƒ{ƒCƒX,Íƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□EƒRƒ“ƒgƒ□□[ƒ‹’¼Œã,ÉŽó□M,µ,½ƒm□[ƒg□EƒIƒ“,Å□V,½,È‰¹’ö,Éƒsƒbƒ`,ª•Ï

‰»,µ,Ä”‰¹,ªŒp‘±,³,ê□ifŒƒK□[ƒg‰‰‘t,ª□s,È,í,ê□j,Ü,·□B

□¦ ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□EƒRƒ“ƒgƒ□□[ƒ‹,É,æ,éƒsƒbƒ`•Ï‰»,Ì‘¬,³,Í□Aƒ|ƒ‹ƒ^ƒ□ƒ“ƒg□Eƒ^ƒCƒ€,Ì□Ý’è’l,ÅŒˆ,Ü,è,Ü,·□B

—á1□j

MIDIƒ□ƒbƒZ□[ƒW□i□à–¾□j	•Ï‰»
90 3C 40□iNote on C4□j	C4ƒIƒ“
B0 54 3C□iPortamento Control from C4□j	•Ï‰»,È,µ
90 40 40□iNote on E4□j	C4,©,çE4,Éƒsƒbƒ`,ª•Ï‰»,·,é
80 3C 40□iNote off C4□j	•Ï‰»,È,µ
80 40 40□iNote off E4□j	E4ƒIƒt

—á2□j

MIDIƒ□ƒbƒZ□[ƒW□i□à–¾□j	•Ï‰»
B0 54 3C□iPortamento Control from C4□j	•Ï‰»,È,µ
90 40 40□iNote on E4□j	C4,©,çE4,Éƒsƒbƒ`•Ï‰»,µ,È,ª,ç”‰¹ŠJŽn
80 40 40□iNote off E4□j	E4ƒIƒt

□›ƒGƒtƒFƒNƒg1□ifŠƒo□[ƒu□EƒZƒ“ƒh□EƒŒƒxƒ‹□j□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[91□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	5BH	vvH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒŠƒo□[ƒu□EƒZƒ“ƒh□EƒŒƒxƒ‹ □F00H-7FH□i0-127□j□A□‰Šú□Ý’è’l = 28H□i40□j

□¦ Šeƒp□[ƒg,ÌƒŠƒo□[ƒu□EƒZƒ“ƒh□EƒŒƒxƒ‹,ð’²□ß,µ,Ü,·□B

□›ƒGƒtƒFƒNƒg3□ifR□[ƒ‰ƒX□EƒZƒ“ƒh□EƒŒƒxƒ‹□j□ifRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[93□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	5DH	vvH

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒR□[ƒ‰ƒX□EƒZƒ“ƒh□EƒŒƒxƒ‹ □F00H-7FH□i0-127□j□A□‰Šú□Ý’è’l = 00H□i0□j

□¦ Šeƒp□[ƒg,ÌƒR□[ƒ‰ƒX□EƒZƒ“ƒh□EƒŒƒxƒ‹,ð’²□ß,µ,Ü,·□B

□›NRPN MSB□^LSB□ifRƒ“ƒgƒ□□[ƒ‰□[□Efiƒ“ƒo□[98, 99□j

fXfe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	63H	mmH
BnH	62H	llH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Efiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

mm = NRPN,ÅŽw’è,·,éƒpƒ‰ƒ□□[ƒ^□[□Efiƒ“ƒo□[,Ì□ãˆÊƒofCƒg□iMSB□j

ll = NRPN,ÅŽw’è,·,éƒpƒ‰ƒ□□[ƒ^□[□Efiƒ“ƒo□[,Ì‰ºˆÊƒofCƒg□iLSB□j

□¦ “dŒ¹“Š“üŽž□A,¨,æ,Ñ"GMƒVƒXƒef€□EƒIƒ“",ðŽó□M,·,é,Æ□ARx.NRPN = OFF,Æ,È,è□ANRPN,ðŽó□M,µ,Ü,¹,ñ□B"GSƒŠƒZƒbƒg",Ü,½,Í□ARx.NRPN = ON,ðŽó□M,·,é,Æ□ANRPN,ÌŽó□M‰Â”\□ó‘Ô,É,È,è,Ü,·□B

□¦ NRPN,Å□Ý’è,³,ê,½’I,Í□Aƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW,âƒŠƒZƒbƒg□EƒI□[ƒ‹□EƒRƒ“ƒgƒ□□[ƒ‰□[,È,Ç,ðŽó□M,µ,Ä,àƒŠƒZƒbƒg,³,ê,Ü,¹,ñ□B

NRPN

ƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,É,Í□ANRPN□ifmƒ“□EƒŒƒWƒXƒ^□[ƒh□Eƒpƒ‰ƒ□□[ƒ^□[□Efiƒ“ƒo□[□j,ÆŒÄ,Î,ê,é□A‹@ŠíŒÅ—L,Ì‹@”\,ð□Ý’è,Å,«,éŠg’£—Ìˆæ,ª—pˆÓ,³,ê,Ä,¢,Ü,·□B–{‹@,Å,ÍNRPN,ÌŽg—p,É,æ,Á,Ä□A‰¹□F,Ìƒpƒ‰ƒ□□[ƒ^□[,È,Ç,ð•Ï‰»,³,¹,é,±,Æ,ª,Å,«,Ü,·□BŽÀ□Û,ÌŽg—p,É, ,½,Á,Ä,Í□A,Ü,¸NRPN□ifRƒ“ƒgƒ□□[ƒ‰□[□Efiƒ“ƒo□[98,¨,æ,Ñ99□A□‡”Ô,Í,Ç,¿,ç,©,ç,Å,à,æ,¢□j,ð‘—□M,µ,Ä□§Œä,·,éƒpƒ‰ƒ□□[ƒ^□[,ðŽw’è,µ□A,»,ÌŒãƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[□ifRƒ“ƒgƒ□□[ƒ‰□[□Efiƒ“ƒo□[6□j,ÅŽw’èƒpƒ‰ƒ□□[ƒ^□[,Ì’I,ð□Ý’è,µ,Ü,·□Bˆê’UNRPN,Ìƒpƒ‰ƒ□□[ƒ^□[,ªŽw’è,³,ê,é,Æ□A,»,ÌŒã“¯ˆê‘`ƒƒ“ƒlƒ‹,ÅŽó□M,·,éƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Í‘S,Ä,»,Ìƒpƒ‰ƒ□□[ƒ^□[,É‘Î,·,é•Ï□X’I,Æ,Ý,È,³,ê,Ü,·□BŒë“®□ì,ð–hŽ~,·,é,½,ß,É□A•K—v,Èƒpƒ‰ƒ□□[ƒ^□[,Æ,»,Ì’I,Ì□Ý’è,ª□I,í,Á,½,ç□ARPNƒkƒ‹□iRPN 7FH 7FH□j,ð□Ý’è,·,é,±,Æ,ð,¨Š©,ß,µ,Ü,·□BŽQ□lŽ‘—¿□u□œŽÀ□Û,ÌMIDIƒ□ƒbƒZ□[ƒW,Ì—á□v□f—á4□„,ÌRPNƒ□ƒbƒZ□[ƒW,Ì—á,ðŽQ□Æ,µ,Ä,,¾,³,¢□B,È,¨□A–{‹@,Å,ÍNRPN,É‘Î,·,éƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Ì‰ºˆÊƒofCƒg□ifRƒ“ƒgƒ□□[ƒ‰□[□Efiƒ“ƒo□[38□j,Í–³Ž‹,µ,Ü,·□B,±,ê,ç,ÌNRPN,É‘Î‰ž,·,éƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Í□ãˆÊƒofCƒg□ifRƒ“ƒgƒ□□[ƒ‰□[□Efiƒ“ƒo□[6□j,Ì,Ý,ð‘—□M,·,ê,Î,æ,¢,Å,·□B

–{‹@,Í□AˆÈ‰º,ÉŽ¦,·NRPN,ðŽó□M,µ,Ü,·□B

NRPN MSB LSB	Data entry MSB	ƒpƒ‰ƒ□□[ƒ^□[–¼,Æ’I,Ì”ÍˆÍ
01H 08H	mmH	ƒrƒuƒ‰□[ƒg□EƒŒƒCƒg□i‘Š‘Î•Ï‰»□j

mm□F0EH-40H-72H□i-50 - 0 - +50□j

01H 09H mmH ƒrƒuƒ‰□[ƒg□EƒffƒvƒX□i‘Š‘Î•Ï‰»□j
mm□F0EH-40H-72H□i-50 - 0 - +50□j

01H 0AH mmH ƒrƒuƒ‰□[ƒg□EƒffƒBƒŒƒC□i‘Š‘Î•Ï‰»□j
mm□F0EH-40H-72H□i-50 - 0 - +50□j

01H 63H mmH TVAƒGƒ“ƒxƒ□□[ƒv□EƒAƒ^ƒbƒN□Eƒ^ƒCƒ€□i‘Š‘Î•Ï‰»□j
mm□F0EH-40H-72H□i-50 - 0 - +50□j

01H 64H mmH TVAƒGƒ“ƒxƒ□□[ƒv□EƒffƒBƒPƒC□Eƒ^ƒCƒ€□i‘Š‘Î•Ï‰»□j
mm□F0EH-40H-72H□i-50 - 0 - +50□j

01H 66H mmH TVAƒGƒ“ƒxƒ□□[ƒv□EƒŠƒŠ□[ƒX□Eƒ^ƒCƒ€□i‘Š‘Î•Ï‰»□j
mm□F0EH-40H-72H□i-50 - 0 - +50□j

18H rrH mmH ƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg□Eƒsƒbƒ`□EƒR□[ƒX□i‘Š‘Î•Ï‰»□j
rr□Fƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,ìƒm□[ƒg□Eƒiƒ“ƒo□[
mm□F00H-40H-7FH□i-64 - 0 - +63”¼‰¹□j

1AH rrH mmH ƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒgTVAƒŒƒxƒ‹□i□â‘Î•Ï‰»□j
rr□Fƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,ìƒm□[ƒg□Eƒiƒ“ƒo□[
mm□F00H-7FH□i0-□Å‘å□j

1CH rrH mmH ƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg□Eƒpƒ“ƒ|ƒbƒg□i□â‘Î•Ï‰»□j
rr□Fƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,ìƒm□[ƒg□Eƒiƒ“ƒo□[
mm□F00H□A01H-40H-7FH□iƒ‰ƒ“ƒ_ƒ€□A□¶-’†‰›-‰E□j

1DH rrH mmH ƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg□EƒŠƒo□[ƒu□EƒZƒ“ƒh□EƒŒƒxƒ‹□i□â‘Î•Ï‰»□j
rr□Fƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,ìƒm□[ƒg□Eƒiƒ“ƒo□[
mm□F00H-7FH□i0-□Å‘å□j

1EH rrH mmH ƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg□EƒR□[ƒ‰ƒX□EƒZƒ“ƒh□EƒŒƒxƒ‹□i□â‘Î•Ï‰»□j
rr□Fƒhƒ‰ƒ€□EƒCƒ“ƒXƒgƒDƒ‹ƒ□ƒ“ƒg,ìƒm□[ƒg□Eƒiƒ“ƒo□[
mm□F00H-7FH□i0-□Å‘å□j

□¦ ‘Š‘Î•Ï‰»,Ìƒpƒ‰ƒ□□[ƒ^□[,Í□AƒvƒŠƒZƒbƒg,³,ê,Ä,¢,é’I,ðŠî□€□i40H□j,Æ,µ,Ä‘Š‘Î“I,É•Ï
‰»,µ,Ü,·□B‘Š‘Î•Ï‰»,Ìƒpƒ‰ƒ□□[ƒ^□[,Í□AGS‹@Ží“¯Žm,Å,à□A‹@Ží,É,æ,è‰¹□F,È,Ç,Ì•Ï
‰»,ÌŽd•û,â•Ï‰»”Íˆí,ªˆÙ,È,é□ê□‡,ª, ,è,Ü,·□B
□¦ □â‘Î•Ï‰»,Ìƒpƒ‰ƒ□□[ƒ^□[,Í□AƒvƒŠƒZƒbƒg,³,ê,Ä,¢,é’I,ÉŠÖ,í,ç,¸□â‘Î’I,Å□Ý’è,µ,Ü,·□B

□›RPN MSB□^LSB□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[100, 101□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	65H	mmH
BnH	64H	llH

n = MIDIƒ`ƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-h.16□j
mm = RPN,ÅŽw’è,·,éƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì□ãˆÊƒoƒCƒg□iMSB□j
ll = RPN,ÅŽw’è,·,éƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì‰ºˆÊƒoƒCƒg□iLSB□j

□¦ Rx.RPN = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B
□¦ RPN,Å□Ý’è,³,ê,½’I,Í□Aƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW,âƒŠƒZƒbƒg□EƒI□[ƒ‹□EƒRƒ“ƒgƒ□□[ƒ
‰□[,È,Ç,ðŽó□M,µ,Ä,àƒŠƒZƒbƒg,³,ê,Ü,¹,ñ□B

RPN
ƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,É,Í□ARPN□iƒŒƒWƒXƒ^□[ƒh□Eƒpƒ
‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[□j□A,·,È,í,¿MIDI‹KŠi,Å‹@”\,ª’è‹`,³,ê,Ä,¢,éŠg’£ƒpƒ‰ƒ□□[ƒ^□[,ª, ,è,Ü,·□B
ŽÀ□Û,ÌŽg—p,É, ,½,Á,Ä,Í□A,Ü,¸RPN□iƒRƒ“ƒgƒ□□[ƒ
‰□[□Eƒiƒ“ƒo□[100,¨,æ,Ñ101□A□‡”Ô,Í,Ç,¿,ç,©,ç,Å,à,æ,¢□j,ð‘—□M,µ,Ä□§Œä,·,éƒpƒ
‰ƒ□□[ƒ^□[,ðŽw’è,µ□A,»,ÌŒãƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[6, 38□j,ÅŽw’èƒpƒ
‰ƒ□□[ƒ^□[,Ì’I,ð□Ý’è,µ,Ü,·□Bˆê’URPN,Ìƒpƒ
‰ƒ□□[ƒ^□[,ªŽw’è,³,ê,é,Æ□A,»,ÌŒã“¯ˆêƒ`ƒƒ“ƒlƒ‹,ÅŽó□M,·,éƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Í‘S,Ä,»,Ìƒpƒ
‰ƒ□□[ƒ^□[,É‘Î,·,é’I,Ì•Ï□X,Æ,Ý,È,³,ê,Ü,·□BŒë“®□ì,ð–hŽ~,·,é,½,ß,É□A•K—v,Èƒpƒ
‰ƒ□□[ƒ^□[,Æ,»,Ì’I,Ì□Ý’è,ª□I,í,Á,½,ç□ARPNƒkƒ‹,ð□Ý’è,·,é,±,Æ,ð,¨Š©,ß,µ,Ü,·□BŽQ□lŽ‘—
¿□u□œŽÀ□Û,ÌMIDIƒ□ƒbƒZ□[ƒW,Ì—á□v□ƒ—á4□„,ðŽQ□Æ,µ,Ä,,¾,³,¢□B

–{‹@,Í□AˆÈ‰º,ÉŽ¦,·RPN,ðŽó□M,µ,Ü,·□B

RPN MSB LSB	Data entry MSB LSB	‰ð□à
00H 00H	mmH ---	ƒsƒbƒ`□Eƒxƒ“ƒh□EƒZƒ“ƒVƒefBƒrƒefB□[

mm□F00H-18H□i0-24”¼‰¹□j□A□‰Šú□Ý’è’l = 02H□i2”¼‰¹□j
ll□F–³Ž‹,µ,Ü,·□i00H,Æ,µ,Ä□^—□,µ,Ü,·□j
”¼‰¹ƒXƒeƒbƒv,Å2ƒlƒNƒ^□[ƒu,Ü,ÅŽw’è‰Â”\,Å,·□B

00H 01H mmH llH ƒ}ƒXƒ^□[□Eƒtƒ@ƒCƒ“□Eƒ`ƒ…□[ƒjƒ“ƒO
mm□All□F00 00H - 40 00H - 7F 7FH
□i-100 - 0 - +99.99ƒZƒ“ƒg□j
ŽQ□lŽ‘—¿□u□œƒ`ƒ…□[ƒjƒ“ƒO,É,Â,¢,Ä□v,ðŽQ□Æ,µ,Ä,,¾,³,¢□B

00H 02H mmH --- ƒ}ƒXƒ^□[□EƒR□[ƒX□Eƒ`ƒ…□[ƒjƒ“ƒO
mm□F28H-40H-58H□i-24 - 0 - +24”¼‰¹□j
ll□F–³Ž‹,µ,Ü,·□i00H,Æ,µ,Ä□^—□,µ,Ü,·□j

7FH 7FH --- --- RPNƒkƒ‹
RPN,¨,æ,ÑNRPN,ªŽw’è,³,ê,Ä,¢
,È,¢□ó‘Ô,É,µ,Ü,·□BRPNƒkƒ‹,É□Ý’èŒãŽó□M,µ,½ƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Í–
³Ž‹,µ,Ü,·□B□iRPNƒkƒ‹,Ì□Ý’è,É,Íƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,Ì‘—□M,Í•s—v,Å,·□B□j
Šù,É□Ý’è□Ï,Ý,Ì□Ý’è’l,Í•Ï‰»,µ,Ü,¹,ñ□B
mm□All□F–³Ž‹,µ,Ü,·□B

□œƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW
fXfe□[ƒ^ƒX ‘æ2ƒofCƒg
CnH ppH

n = MIDIƒ`ƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j
pp = ƒvƒ□ƒOƒ‰ƒ€□Eƒiƒ“ƒo□[□F00H-7FH□iprog.1-prog.128□j

□¦ Rx.PROGRAM CHANGE = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j
□¦ ƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒWŽó□MŒã,Ì□V,½,Èƒm□[ƒg□EƒIƒ“,©,ç‰¹□F,ª•Ï,í,è,Ü,·□Bƒvƒ□ƒOƒ
‰ƒ€□Eƒ`ƒFƒ“ƒWŽó□M‘O,©,ç,·,Å,É”‰¹’†,Ìƒ{ƒCƒX,Í‰e‹¿,ðŽó,¯,Ü,¹,ñ□B

□œƒ`ƒƒ“ƒlƒ‹□EƒvƒŒƒbƒVƒƒ□[
fXfe□[ƒ^ƒX ‘æ2ƒofCƒg
DnH vvH

n = MIDIƒ`ƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

vv = ƒ`ƒƒƒ“ƒlƒ‹□EƒvƒŒƒbƒVƒƒ□[□F00H-7FH□i0-127□j

□¦ Rx.CH PRESSURE□iCAf□j = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□¦ Œø‰Ê,Ì“à—e,ÍƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,Å□Ý’è,µ,Ü,·□B□‰Šú□Ý’è,Å,ÍŒø‰Ê,ª”□¶,µ,Ü,¹,ñ□B

□œƒsƒbƒ`□Eƒxƒ“ƒh□Eƒ`ƒFƒ“ƒW

fXfe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
EnH	llH	mmH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

mm, ll = ƒsƒbƒ`□Eƒxƒ“ƒh’l □F00 00H - 40 00H - 7F 7FH□i-8192 - 0 - +8191□j

□¦ Rx.PITCH BEND = OFF,Ì,Æ,«,ÍŽó□M,µ,Ü,¹,ñ□B□i□‰Šú□Ý’è’l,ÍON□j

□¦ Œø‰Ê,Ì“à—e,ÍƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,Å□Ý’è,µ,Ü,·□B□‰Šú□Ý’è,Íƒsƒbƒ`□Eƒxƒ“ƒh,Å,·□B

□¡ƒ`ƒƒƒ“ƒlƒ‹□Eƒ‚□[ƒh□Eƒ□ƒbƒZ□[ƒW

□œƒl□[ƒ‹□EƒTƒEƒ“ƒh□Eƒlƒt□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[120□j

fXfe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	78H	00H

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ,±,Ìƒ□ƒbƒZ□[ƒW,ðŽó□M,·,é,Æ□AŠY“–ƒ`ƒƒƒ“ƒlƒ‹,Ì”‰¹’†,Ì‰¹,ð‘S,Ä□Á‰¹,µ,Ü,·□B

□œƒŠƒZƒbƒg□Eƒl□[ƒ‹□EƒRƒ“ƒgƒ□□[ƒ‰□[□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[121□j

fXfe□[ƒ^ƒX	‘æ2ƒofCƒg	‘æ3ƒofCƒg
BnH	79H	00H

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ,±,Ìƒ□ƒbƒZ□[ƒW,ðŽó□M,·,é,Æ□AˆÈ‰º,ÌƒRƒ“ƒgƒ□□[ƒ‰□[,ªƒŠƒZƒbƒg’l,É□Ý’è,³,ê,Ü,·□B

ƒRƒ“ƒgƒ□□[ƒ‰□[	ƒŠƒZƒbƒg’l
ƒsƒbƒ`□Eƒxƒ“ƒh□Eƒ`ƒFƒ“ƒW	□}0□i’†“_□j
ƒ|ƒŠƒtƒHƒjƒbƒN□EƒL□[□EƒvƒŒƒbƒVƒƒ□[	0□iƒIƒt□j
ƒ`ƒƒ“ƒIƒ‹□EƒvƒŒƒbƒVƒƒ□[	0□iƒIƒt□j
ƒ‚ƒWƒ…ƒŒ□[ƒVƒ‡ƒ“	0□iƒIƒt□j
ƒGƒNƒXƒvƒŒƒbƒVƒ‡ƒ“	127□i□Å‘å□j
ƒz□[ƒ‹ƒh1	0□iƒIƒt□j
ƒ|ƒ‹ƒ^ƒ□ƒ“ƒg	0□iƒIƒt□j
ƒ\ƒXƒeƒk□[ƒg	0□iƒIƒt□j
ƒ\ƒtƒg	0□iƒIƒt□j
RPN	–¢□Ý’è□ó‘Ô□A□Ý’è□Ï‚Ý‚Ìƒf□[ƒ^‚Í•Ï‰»‚µ‚Ü‚¹‚ñ
NRPN	–¢□Ý’è□ó‘Ô□A□Ý’è□Ï‚Ý‚Ìƒf□[ƒ^‚Í•Ï‰»‚µ‚Ü‚¹‚ñ

□œƒI□[ƒ‹□Eƒm□[ƒg□EƒIƒt□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[123□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	7BH	00H

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ƒI□[ƒ‹□Eƒm□[ƒg□EƒIƒt‚ðŽó□M‚·‚é‚Æ□AŠY“–ƒ`ƒƒ“ƒIƒ‹‚ÌƒIƒ“‚É‚È‚Á‚Ä‚¢
‚éƒm□[ƒg‚ð‚·‚×‚ÄƒIƒt‚µ‚Ü‚·□B½‚¾‚µ□Aƒz□[ƒ‹ƒh1‚Ü‚½‚Íƒ\
ƒXƒeƒk□[ƒg‚ªƒIƒ“‚Ì□ê□‡‚Í□A»‚ê‚ç‚ªƒIƒt‚É‚È‚é‚Ü‚Å”‰¹‚Í—¹‚µ‚Ü‚¹‚ñ□B

□œOMNI OFF□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[124□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	7CH	00H

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ƒI□[ƒ‹□Eƒm□[ƒg□EƒIƒt‚ðŽó□M‚µ‚½‚Æ‚«‚Æ“¯‚¶□ˆ—□‚ð□s‚È‚¢‚Ü‚·□B

□œOMNI ON□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[125□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	7DH	00H

n = MIDIƒ`ƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ƒl□[ƒ‹□Eƒm□[ƒg□Eƒlƒtƒ,ðŽó□M,µ,½,Æ,«,Æ“¯,¶□ˆ—□,ð□s,È,¢,Ü,·□BOMNI ON,É,Í,È,è,Ü,¹,ñ□B

□œMONO□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[126□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	7EH	mmH

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

mm = ƒ‚ƒm□” □F00H-10H□i0-16□j

□¦ ƒl□[ƒ‹□EƒTƒEƒ“ƒh□Eƒlƒtƒ¨,æ,Ñƒl□[ƒ‹□Eƒm□[ƒg□Eƒlƒtƒ,ðŽó□M,µ,½,Æ,«,Æ“¯,¶□ˆ—□,ð□s,È,¢□AŠY“–ƒ`ƒƒƒ“ƒlƒ‹,ðMode4□iM = 1□j,É,µ,Ü,·□BŽó□M,µ,½mm□iƒ‚ƒm□”□j,Ì’l,É,©,©,í,ç,¸□AM = 1,É,È,è,Ü,·□B

□œPOLY□iƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[127□j

ƒXƒe□[ƒ^ƒX	‘æ2ƒoƒCƒg	‘æ3ƒoƒCƒg
BnH	7FH	00H

n = MIDIƒ`ƒƒƒ“ƒlƒ‹□Eƒiƒ“ƒo□[□F0H-FH□ich.1-ch.16□j

□¦ ƒl□[ƒ‹□EƒTƒEƒ“ƒh□Eƒlƒtƒ¨,æ,Ñƒl□[ƒ‹□Eƒm□[ƒg□Eƒlƒtƒ,ðŽó□M,µ,½,Æ,«,Æ“¯,¶□ˆ—□,ð□s,È,¢□AŠY“–ƒ`ƒƒƒ“ƒlƒ‹,ðMode3,É,µ,Ü,·□B

□¡ƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW

ƒXƒe□[ƒ^ƒX	ƒf□[ƒ^□EƒoƒCƒg	ƒXƒe□[ƒ^ƒX
F0H	iiH, ddH, ..., eeH	F7H

F0H □FƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,ÌƒXƒe□[ƒ^ƒX

ii = IDƒiƒ“ƒo□[

□F,Ç,Ìƒ□□[ƒJ□[,ÌƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,Å, ,é,©,ÌŽ¯•Ê,ð,·,é,½,ß,ÌIDƒiƒ“ƒo□[□iƒ}ƒjƒtƒ@ƒNƒ`ƒƒ‰□[ID□j,Å,·□Bƒ□□[ƒ‰ƒ“ƒh,Ìƒ}ƒjƒtƒ@ƒNƒ`ƒƒ‰□[ID,Í41H,Å,·□B

7EH,Æ7FH,ÌIDƒiƒ“ƒo□[,Í□Aƒ†ƒjƒo□[ƒTƒ‹□Eƒmƒ“ƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒW□i7EH□j□Aƒ†ƒjƒo□[ƒTƒ‹□EƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒ

W□i7FH□j,Æ,µ,ÄMIDI‹KŠi,ÌŠg’£,Æ,µ,ÄŽg—p,³,ê,Ü,·□B

dd,..., ee = ƒf□[ƒ^ □F00H-7FH□i0-127□j

F7H □FEOX□ifGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

–

{‹@,ªŽó□M,·,éƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,É,Í□Aƒ,□[ƒh□Ý’è,ÉŠÖ,·,éƒ□ƒbƒZ□[ƒW□Aƒ†ƒj ƒo□[ƒTƒ‹□EƒŠƒAƒ‹ƒ^ƒCƒ€□EƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW□Aƒf□[ƒ^□EƒZƒbƒg□iDT1□j,ª, ,è ,Ü,·□B

□œƒ,□[ƒh□Ý’è,ÉŠÖ,·,éƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW ‹@Ší,ðGS,âGM,Ìƒ,□[ƒh,É□‰Šú‰»,µ,½,è□A,± ,ê,ç,Ìƒ,□[ƒh,©,ç‘¼,Ìƒ,□[ƒh,É□Ø,è‘Ö,¦,½,è,·,é□ê□‡,ÉŽg—p,·,éƒ□ƒbƒZ□[ƒW,Å,·□B ‹Èƒf□[ƒ^□ì□¬,Ì□Û,É,Í□AGMƒXƒRƒA,Å,Í□uGMƒVƒXƒeƒ€□EƒIƒ“□v,ð□AGSƒ~ƒ… □[ƒWƒbƒN□Eƒf□[ƒ^,Å,Í□uGSƒŠƒZƒbƒg□v,ð‹Èƒf□[ƒ^,Ì□æ“ª,É’u,,± ,Æ,ð,¨Š©,ß,µ,Ü,·□B,½,¾,µ□A1,Â,Ì‹È,É,Í□A,»,Ì‹È,É, ,Á,½ƒ,□[ƒh□Eƒ□ƒbƒZ□[ƒW,ð1,Â,¾,¯“ü,ê,é,æ,¤ ,É,µ,Ä,,¾,³,¢□B□i•¡□”ŒÂ,Ìƒ,□[ƒh□Ý’èƒ□ƒbƒZ□[ƒW,ð1,Â,Ì‹È’†,É“ü,ê,È,¢,Å,,¾,³,¢□B□j □uGMƒVƒXƒeƒ€□EƒIƒ“□v□uGMƒVƒXƒeƒ€□EƒIƒt□v,Íƒ†ƒjƒo□[ƒTƒ‹□Eƒmƒ“ƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒW,ÌƒtƒH□[ƒ}ƒbƒg,ðŽg—p,µ,Ä,¢,Ü,·□B□uGSƒŠƒZƒbƒg□v□uƒCƒOƒWƒbƒgGSƒ,□[ƒh□v,Íƒ□□[ƒ ‰ƒ“ƒh,ÌƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒtƒH□[ƒ}ƒbƒg□uƒf□[ƒ^□EƒZƒbƒg1□iDT1□j□v,ðŽg—p,µ,Ä,¢,Ü,·□B

□ZGMƒVƒXƒeƒ€□EƒIƒ“ □uGMƒVƒXƒeƒ€□EƒIƒ“□v,Í□A‹@Ší,Ì“à•”□Ý’è,ðGM,Ì□‰Šú□ó‘Ô□iGeneral MIDI System-Level 1□j,ÉƒŠƒZƒbƒg,·,éƒRƒ}ƒ“ƒh□Eƒ□ƒbƒZ□[ƒW,Å,·□B,±,ê,ðŽó□M,µ,½GM‹@Ší,Í□AGMƒXƒRƒA,ð□³,µ,‰ ‰‘t,Å,«,é□ó‘Ô,ÉŽ©“®“I,É,È,è,Ü,·□B

ƒXƒe□[ƒ^ƒX	ƒf□[ƒ^□EƒofCƒg	ƒXƒe□[ƒ^ƒX
F0H	7EH, 7FH, 09H, 01H	F7H

ƒofCƒg	‰ð□à
F0H	ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
7EH	IDƒif“ƒo□[□iƒ†ƒjƒo□[ƒTƒ‹□Eƒmƒ“ƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒW□j
7FH	ƒfƒofCƒXID□iBroadcast□j
09H	ƒTƒuID#1□iGeneral MIDI Message□j
01H	ƒTƒuID#2□iGeneral MIDI On□j
F7H	EOX□ifGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦ ,±,Ìƒ□ƒbƒZ□[ƒWŽó□M,É,æ,è□ARx.BANK SELECT = OFF□ARx.NRPN = OFF,É,È,è,Ü,·□B
□¦ ,±,Ìƒ□ƒbƒZ□[ƒW,Æ,»,ÌŽŸ,Ìƒ□ƒbƒZ□[ƒW,ÌŠÔ,É,Í□A50msˆÈ□ã,ÌŠÔŠu,ð‹ó,¯,Ä,,¾,³,¢□B

□ZGMƒVƒXƒef€□EƒIƒt
,±,Ìƒ□ƒbƒZ□[ƒW,ðŽó□M,·,é,Æ□A–{‹@,ÍGS,Ì“®□ìƒ,□[ƒh,É,È,è,Ü,·□B

ƒXƒe□[ƒ^ƒX	ƒ□[ƒ^□EƒofCƒg	ƒXƒe□[ƒ^ƒX
F0H	7EH, 7FH, 09H, 02H	F7H

ƒofCƒg	‰ð□à
F0H	ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
7EH	IDƒiƒ“ƒo□[□iƒtƒjƒo□[ƒTƒ‹□Eƒmƒ“ƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒW□j
7FH	ƒƒƒofCƒXID□iBroadcast□j
09H	ƒTƒuID#1□iGeneral MIDI Message□j
02H	ƒTƒuID#2□iGeneral MIDI Off□j
F7H	EOX□iƒGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦

GSƒŠƒZƒbƒgŽó□MƒXƒCƒbƒ`,âƒGƒNƒXƒNƒ‹□[ƒVƒuŽó□MƒXƒCƒbƒ`,Ì□Ý’è,ªOFF,Ì,Æ,«,É,ÍŽó□M,µ,Ü,¹,ñ□B

□ZGSƒŠƒZƒbƒg
GSƒŠƒZƒbƒg,Í□A‹@Ší,Ì“à•”□Ý’è,ðGS,Ì□
‰Šú□ó‘Ô,ÉƒŠƒZƒbƒg,·,éƒRƒ}ƒ“ƒh□Eƒ□ƒbƒZ□[ƒW,Å,·□BGSƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,Ì□æ“ª,É,Í,±,Ìƒ□ƒbƒZ□[ƒW,ª“ü,Á,Ä,¨,è□A,»,ê,ðŽó□M,µ,½GS‹@Ší,Í□AGSƒ~ƒ…□[ƒWƒbƒN□Eƒf□[ƒ^,ð□³,µ,‰‰‘t,Å,«,é□ó‘Ô,ÉŽ©“®“I,É,È,è,Ü,·□B

ƒXƒe□[ƒ^ƒX	ƒ□[ƒ^□EƒofCƒg	ƒXƒe□[ƒ^ƒX
F0H	41H, dev, 42H, 12H, 40H, 00H, 7FH, 00H, 41H	F7H

ƒofCƒg	‰ð□à
F0H	ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
41H	IDƒiƒ“ƒo□[□iRoland□j
dev	ƒƒƒofCƒXID□idev□F00H-1FH□i1-32□j□A□‰Šú□Ý’è’l,Í10H□i17□j□j
42H	ƒ‚ƒƒ‹ID□iGS□j

12H ƒRƒ}ƒ“ƒhID□iDT1□j
40H ƒAƒhƒŒƒX□ãˆÊƒofCƒg
00H ƒAƒhƒŒƒX
7FH ƒAƒhƒŒƒX‰ºˆÊƒofCƒg
00H ƒƒ□[ƒ^□iGSƒŠƒZƒbƒg□j
41H ƒ`ƒFƒbƒNƒTƒ€
F7H EOX□iƒGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦ ,±,Ìƒ□ƒbƒZ□[ƒWŽó□M,É,æ,è□ARx.NRPN = ON,É,È,è,Ü,·□B

□ZƒCƒOƒWƒbƒgGSƒ,□[ƒh
,±,Ìƒ□ƒbƒZ□[ƒW,ðŽó□M,·,é,Æ□A–{‹@,ÍGM,Ì“®□ìƒ,□[ƒh,É,È,è,Ü,·□B

<u>ƒXƒe□[ƒ^ƒX</u> <u>ƒƒ□[ƒ^□EƒofCƒg</u> <u>ƒXƒe□[ƒ^ƒX</u>
F0H 41H, dev, 42H, 12H, 40H, 00H, 7FH, 7FH, 42H F7H

<u>ƒofCƒg</u> <u>‰ð□à</u>
F0H ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
41H IDƒiƒ“ƒo□[□iRoland□j
dev ƒƒƒofCƒXID □idev□F00H-1FH□i1-32□j□A□‰Šú□Ý’è’l,Í10H□i17□j□j
42H ƒ‚ƒƒ‹ID□iGS□j
12H ƒRƒ}ƒ“ƒhID□iDT1□j
40H ƒAƒhƒŒƒX□ãˆÊƒofCƒg
00H ƒAƒhƒŒƒX
7FH ƒAƒhƒŒƒX‰ºˆÊƒofCƒg
7FH ƒƒ□[ƒ^□iExit GS mode□j
42H ƒ`ƒFƒbƒNƒTƒ€
F7H EOX□iƒGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦

ƒ‚□[ƒh□Ø,è‘Ö,¦Žó□MƒXƒCƒbƒ`,âƒGƒNƒXƒNƒ‹□[ƒVƒuŽó□MƒXƒCƒbƒ`,Ì□Ý’è,ªOFF,Ì,Æ,«,É,ÍŽó□M,µ,Ü,¹,ñ□B

□œƒtƒjƒo□[ƒTƒ‹□EƒŠƒAƒ‹ƒ^ƒCƒ€□EƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW

□Zƒ}ƒXƒ^□[□Eƒ{ƒŠƒ…□[ƒ€

fXƒe□[ƒ^ƒX	ƒf□[ƒ^□EƒofCƒg	fXƒe□[ƒ^ƒX
F0H	7FH, 7FH, 04H, 01H, llH, mmH	F7H

ƒofCƒg	‰ð□à
F0H	ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
7FH	IDƒiƒ“ƒo□[□iƒ†ƒjƒo□[ƒTƒ‹□EƒŠƒAƒ‹ƒ^ƒCƒ€□Eƒ□ƒbƒZ□[ƒW□j
7FH	ƒfƒofCƒXID□iBroadcast□j
04H	ƒTƒuID#1□iDevice Control messages□j
01H	ƒTƒuID#2□iMaster Volume□j
llH	ƒ}ƒXƒ^□[□Eƒ{ƒŠƒ…□[ƒ€,Ì‰ºˆÊƒofCƒg
mmH	ƒ}ƒXƒ^□[□Eƒ{ƒŠƒ…□[ƒ€,Ì□ãˆÊƒofCƒg
F7H	EOX□iƒGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦ ƒ}ƒXƒ^□[□Eƒ{ƒŠƒ…□[ƒ€,Ì‰ºˆÊƒofCƒg□illH□j,Í□A00H,Æ,µ,Ä□ˆ—□,µ,Ü,·□B

□¦ ƒGƒNƒXƒNƒ‹□[ƒVƒuŽó□MƒXƒCƒbƒ`,Ì□Ý’è,ªOFF,Ì,Æ,«,É,ÍŽó□M,µ,Ü,¹,ñ□B

□Zƒf□[ƒ^□EƒZƒbƒg1 DT1

ŽÀ□Û,Ìƒf□[ƒ^,Ì“]‘—,ð□s,È,¤ƒ□ƒbƒZ□[ƒW,Å□A‹@Ší,É‘Î,µ,Äƒf□[ƒ^,ð□Ý’è,µ,½,¢□ê□‡,ÉŽg—p,µ,Ü,·□B

fXƒe□[ƒ^ƒX	ƒf□[ƒ^□EƒofCƒg	fXƒe□[ƒ^ƒX
F0H	41H, dev, 42H, 12H, aaH, bbH, ccH, ddH, ... eeH, sum	F7H

ƒofCƒg	‰ð□à
F0H	ƒGƒNƒXƒNƒ‹□[ƒVƒu□EƒXƒe□[ƒ^ƒX
41H	IDƒiƒ“ƒo□[□iRoland□j
dev	ƒfƒofCƒXID□idev□F00H-1FH□A□‰Šú□Ý’è’l,Í10H,Å,·□j
42H	ƒ‚ƒƒ‹ID□iGS□j
12H	ƒRƒ}ƒ“ƒhID□iDT1□j
aaH	ƒAƒhƒŒƒX□ãˆÊƒofCƒg□F‘—□M,·,éƒf□[ƒ^,Ì□æ“ªƒAƒhƒŒƒX,Ì□ãˆÊƒofCƒg
bbH	ƒAƒhƒŒƒX’†ˆÊƒofCƒg□F‘—□M,·,éƒf□[ƒ^,Ì□æ“ªƒAƒhƒŒƒX,Ì’†ˆÊƒofCƒg
ccH	ƒAƒhƒŒƒX‰ºˆÊƒofCƒg□F‘—□M,·,éƒf□[ƒ^,Ì□æ“ªƒAƒhƒŒƒX,Ì‰ºˆÊƒofCƒg
ddH	ƒf□[ƒ^□F‘—□M,·,éƒf□[ƒ^,Ì–{‘Ì□B•¡□”ƒofCƒg,Ìƒf□[ƒ^,ÍƒAƒhƒŒƒX□‡,É‘—□M,µ,Ü,·
□F	□F
eeH	ƒf□[ƒ^
sum	ƒ`ƒFƒbƒNƒTƒ€

F7H EOX□ifGƒ“ƒh□EƒIƒu□EƒGƒNƒXƒNƒ‹□[ƒVƒu□j

□¦ ƒf□[ƒ^,ÌŽí—Þ,É,æ,èˆê“x,É“]‘—,·,éƒf□[ƒ^,Ì—
Ê,ÍŒˆ,Ü,Á,Ä,¨,è□AŒˆ,ß,ç,ê,½□æ“ªƒAƒhƒŒƒX,ÆƒTƒCƒY,Ìƒf□[ƒ^ˆÈŠO,ÍŽó□M,µ,Ü,¹,ñ□B

□¦ 128ƒoƒCƒg,ð‰z,¦,éƒTƒCƒY,Ìƒf□[ƒ^,Í128ƒoƒCƒgˆÈ‰º,ÌƒpƒPƒbƒg,É‹æ□Ø,Á,Ä‘—□M,µ,Ä,-
,¾,³,¢□B□uƒf□[ƒ^□EƒZƒbƒg1□v,ð‘±,¯,Ä‘—,é□ê□‡□AƒpƒPƒbƒgŠÔ,Í40msˆÈ□ã,ÌŽžŠÔŠÔŠu,ð, ,¯,Ä
,,¾,³,¢□B

□¡ƒAƒhƒŒƒX□Eƒuƒ□ƒbƒN□Eƒ}ƒbƒv
ƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,ÌƒAƒhƒŒƒX□Eƒ}ƒbƒv,ÌŠT—ª,Íˆ‰º,Ì’Ê,è,Å,·□B

ƒAƒhƒŒƒX□iH□j ƒuƒ□ƒbƒN

```
40 00 00   + - - - - - - - - - - - - - - - - - -   +
           |  ƒVƒXƒef€□Eƒpƒ‰ƒ□□[ƒ^□[             |  ƒCƒ“ƒfƒBƒrƒƒ…ƒAƒ‹
40 01 3F   + - - - - - - - - - - - - - - - - - -   +
40 1x 00   + - - - - - - - - - - - - - - - - - -   +
           |  ƒp□[ƒg□Eƒpƒ‰ƒ□□[ƒ^□[               |  ƒCƒ“ƒfƒBƒrƒƒ…ƒAƒ‹
           |  (x = 0-F)                            |
40 2x 5A   + - - - - - - - - - - - - - - - - - -   +
41 m0 00   + - - - - - - - - - - - - - - - - - -   +
           |  ƒhƒ‰ƒ€□EƒZƒbƒgƒAƒbƒv□Eƒpƒ‰ƒ□□[ƒ^□[  |  ƒCƒ“ƒfƒBƒrƒƒ…ƒAƒ‹
           |  (m = 0-1)                            |
41 m8 7F   + - - - - - - - - - - - - - - - - - -   +

48 00 00   + - - - - - - - - - - - - - - - - - -   +
           |  ƒVƒXƒef€□Eƒpƒ‰ƒ□□[ƒ^□[             |  ƒoƒ‹ƒN
48 01 10   + - - - - - - - - - - - - - - - - - -   +
           |  ƒp□[ƒg□Eƒpƒ‰ƒ□□[ƒ^□[               |  ƒoƒ‹ƒN
48 1D 0F   + - - - - - - - - - - - - - - - - - -   +
49 m0 00   + - - - - - - - - - - - - - - - - - -   +
           |  ƒhƒ‰ƒ€□EƒZƒbƒgƒAƒbƒv□Eƒpƒ‰ƒ□□[ƒ^□[  |  ƒoƒ‹ƒN
           |  (m = 0-1)                            |
49 mE 17   + - - - - - - - - - - - - - - - - - -   +
```

GS,Ìƒf□[ƒ^“]‘—•û–@,Í□AŠeƒpƒ‰ƒ□□[ƒ^□[,ð1,Â1,Â“]‘—,·,éƒCƒ“ƒfƒBƒrƒƒ…ƒAƒ‹□Eƒpƒ‰ƒ□□[ƒ^□[“]‘—

,Ì,Ý,Å,·□B

□¡ƒCƒ“ƒƒBƒrƒƒƒ…ƒAƒ‹□Eƒpƒ‰ƒ□□[ƒ^□[
ƒCƒ“ƒƒBƒrƒƒƒ…ƒAƒ‹□Eƒpƒ‰ƒ□□[ƒ^□[“]‘—,Å,Í□A1,Â,ÌƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW□i□uF0 .....
F7□v,Ì1ƒpƒPƒbƒg□j,Å1,Â,Ìƒpƒ‰ƒ□□[ƒ^□[,Ìƒf□[ƒ^‘—□M□i,Ü,½,Íƒf□[ƒ^‘—□M—v‹□□j,ð,µ,Ü,·□B
ƒCƒ“ƒƒBƒrƒƒƒ…ƒAƒ‹□Eƒpƒ‰ƒ□□[ƒ^□[“]‘—,É,Í□A‰º‹L,Ì□uƒpƒ
‰ƒ□□[ƒ^□[□EƒAƒhƒŒƒX□Eƒ}ƒbƒv□v‹L□Ú,ÌƒAƒhƒŒƒX,¨,æ,ÑƒTƒCƒY,ðŽg—p,µ,Ä,,¾,³,¢□B□u#□v,Ì•t,¢
,Ä,¢,éƒAƒhƒŒƒX,Í□æ“ªƒAƒhƒŒƒX,Æ,µ,ÄŽg—p,Å,«,Ü,¹,ñ□B

□œƒVƒXƒeƒ€□Eƒpƒ‰ƒ□□[ƒ^□[
‹@Ší‘S‘Ì,É,©,©,í,éƒpƒ‰ƒ□□[ƒ^□[,ðƒVƒXƒeƒ€□Eƒpƒ‰ƒ□□[ƒ^□[,Æ,¢,¢,Ü,·□B

ƒAƒhƒŒƒX□iH□jƒTƒCƒY□iH□j		ƒf□[ƒ^□iH□j	ƒpƒ‰ƒ□□[ƒ^□[	□à–¾	□‰Šú□Ý’è’l□iH□j	
	□à–¾					
40 00 00	00 00 04	0018-07E8	MASTER TUNE	-100.0 - +100.0□mƒZƒ“ƒg□n	00 04 00 00	
	0□mƒZƒ“ƒg□n					
40 00 01#			□iƒjƒuƒ‹□Eƒf□[ƒ^,ðŽg—p□j			
40 00 02#						
40 00 03#						

□¦ ŽQ□lŽ‘—¿□uƒ`ƒ…□[ƒjƒ“ƒO,É,Â,¢,Ä□v,ðŽQ□Æ,µ,Ä,,¾,³,¢□B

40 00 04	00 00 01	00-7F	MASTER VOLUME	0-127	7F	127
			□i= F0 7F 7F 04 01 00 vv F7□j			
40 00 05	00 00 01	28-58	MASTER KEY-SHIFT	-24 - +24□m”¼‰¹□n	40	0□m”¼‰¹□n
40 00 06	00 00 01	01-7F	MASTER PAN	-63□i□¶□j - +63□i‰E□j	40	0□i’†‰›□j
40 00 7F	00 00 01	00□A7F	MODE SET	00 = GSƒŠƒZƒbƒg		

□iŽó□M,Ì,Ý□j 127 = Exit GS mode

□¦ □uƒ,□[ƒh□Ý’è,ÉŠÖ,·,éƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW□v,ðŽQ□Æ,µ,Ä,,¾,³,¢□B

40 01 10	00 00 10	00-0F	VOICE RESERVE	Part 10□iƒhƒ‰ƒ€□Eƒp□[ƒg□j	02	2
40 01 11#				Part 1	06	6
40 01 12#				Part 2	02	2
40 01 13#				Part 3	02	2
40 01 14#				Part 4	02	2
40 01 15#				Part 5	02	2
40 01 16#				Part 6	02	2

40 01 17#				Part 7	02	2
40 01 18#				Part 8	02	2
40 01 19#				Part 9	02	2
40 01 1A#				Part 11	00	0
40 01 □F#				□F	□F	□F
40 01 1F#				Part 16	00	0
40 01 30	00 00 01	00-07	REVERB MACRO	00□FRoom 1 01□FRoom 2 02□FRoom 3 03□FHall 1 04□FHall 2 05□FPlate 06□FDelay 07□FPanning Delay	04	Hall 2
40 01 31	00 00 01	00-07	REVERB CHARACTER	0-7	04	4
40 01 33	00 00 01	00-7F	REVERB LEVEL	0-127	40	64
40 01 34	00 00 01	00-7F	REVERB TIME	0-127	40	64
40 01 35	00 00 01	00-7F	REVERB DELAY FEEDBACK	0-127	00	0

□¦ REVERB MACRO,ÍƒŠƒo□[ƒu,ÌŠeƒpƒ‰ƒ□□[ƒ^□[,ðˆêŠ‡,µ,Ä□Ý’è,·,éƒ}ƒNƒ□□Eƒpƒ‰ƒ□□[ƒ^□[,Å,·□BREVERB MACRO,ÅƒŠƒo□[ƒu,ÌŽí—Þ,ð‘I‘ð,·,é,Æ□AŠeƒ}ƒNƒ□,É‘Î‰ž,µ,½ƒvƒŠƒZƒbƒg’l,ªŠeƒŠƒo□[ƒu□Eƒpƒ‰ƒ□□[ƒ^□[,ÉƒZƒbƒg,³,ê,Ü,·□B

□¦ REVERB CHARACTER,Í□AƒŠƒo□[ƒu,ÌƒAƒ‹ƒSƒŠƒYƒ€,ð•Ï,¦,éƒpƒ‰ƒ□□[ƒ^□[,Å□A,»,Ì’l,Í□A“¯,¶”Ô□†,ÌREVERB MACRO,É‘Î‰ž,µ,Ä,¢,Ü,·□B

40 01 38	00 00 01	00-07	CHORUS MACRO	00□FChorus 1 01□FChorus 2 02□FChorus 3 03□FChorus 4 04□FFeedback Chorus 05□FFlanger 06□FShort Delay 07□FShort Delay□iFB□j	02	Chorus 3
40 01 3A	00 00 01	00-7F	CHORUS LEVEL	0-127	40	64

40 01 3B	00 00 01	00-7F	CHORUS FEEDBACK	0-127	08	8
40 01 3C	00 00 01	00-7F	CHORUS DELAY	0-127	50	80
40 01 3D	00 00 01	00-7F	CHORUS RATE	0-127	03	3
40 01 3E	00 00 01	00-7F	CHORUS DEPTH	0-127	13	19
40 01 3F	00 00 01	00-7F	CHORUS SEND LEVEL TO REVERB	0-127	00	0

□¦ CHORUS MACRO,ÍƒR□[ƒ‰ƒX,ÌŠeƒpƒ‰ƒ□□[ƒ^□[,ðˆêŠ‡,µ,Ä□Ý’è,·,éƒ}ƒNƒ□□Eƒpƒ‰ƒ□□[ƒ^□[,Å,·□BCHORUS MACRO,ÅƒR□[ƒ‰ƒX,ÌŽí—Þ,ð‘I‘ð,·,é,Æ□AŠeƒ}ƒNƒ□,É‘Î‰ž,µ,½ƒvƒŠƒZƒbƒg’l,ªŠeƒR□[ƒ‰ƒX□Eƒpƒ‰ƒ□□[ƒ^□[,ÉƒZƒbƒg,³,ê,Ü,·□B

□œƒp□[ƒg□Eƒpƒ‰ƒ□□[ƒ^□[
–{‹@,Í16ŒÂ,Ìƒp□[ƒg,ðŽ□,Á,Ä,¨,è□A,±,ê,ç,Ìƒp□[ƒg,²,Æ,É—l□X,È□Ý’è,ð□s,¤ƒpƒ‰ƒ□□[ƒ^,ðƒp□[ƒg□Eƒpƒ‰ƒ□□[ƒ^□[,Æ,¢,¢,Ü,·□B
ƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,Åƒp□[ƒg□Eƒpƒ‰ƒ□□[ƒ^□[□î•ñ,Ì’Ê□M,ð,·,é□ê□‡□Aƒp□[ƒg□Eƒiƒ“ƒo□[□i’Ê□í,ÍMIDIƒ`ƒƒƒ“ƒlƒ‹,Æ“¯,¶”Ô□†□j,Å,Í,È,-□Aƒuƒ□ƒbƒN□Eƒiƒ“ƒo□[,É,æ,èƒAƒhƒŒƒX,ðŽw’è,µ,Ü,·□Bƒuƒ□ƒbƒN□Eƒiƒ“ƒo□[,Í0□iH□j,©,çF□iH□j,Ü,Å□A16ŒÂ,Ìƒuƒ□ƒbƒN,ðŽw’è,Å,«,é,æ,¤,É,È,Á,Ä,¢,Ü,·□B

ƒp□[ƒg□Eƒiƒ“ƒo□[,Æƒuƒ□ƒbƒN□Eƒiƒ“ƒo□[,ÌŠÖŒW,íˆÈ‰º,Ì’Ê,è,Å,·□B

x…ƒuƒ□ƒbƒN□Eƒiƒ“ƒo□[□i0-F□j,

Part 1□iMIDIch = 1□j x = 1□iH□j
Part 2□iMIDIch = 2□j x = 2□iH□j
□F □F □F
Part 9□iMIDIch = 9□j x = 9□iH□j
Part10□iMIDIch = 10□j x = 0□iH□j
Part11□iMIDIch = 11□j x = A□iH□j
Part12□iMIDIch = 12□j x = B□iH□j
□F □F □F
Part16 □iMIDIch = 16□j x = F□iH□j

ˆÈ‰º,Ìƒ}ƒbƒv,Å,Í□AƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,ÌƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[,ðCC#,Å•\,µ,Ä,¢,Ü,·□B

ƒAƒhƒŒƒX□iH□j	ƒTƒCƒY□iH□j	ƒf□[ƒ^□iH□j	ƒpƒ‰ƒ□□[ƒ^□[	□à–¾	□	
‰Šú□Ý’è’l□iH□j		□à–¾				
40 1x 00	00 00 02	00-7F	TONE NUMBER	CC#00 VALUE 0-127	00	0

40 1x 01#		00-7F		ƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW1-128	00	1
40 1x 02	00 00 01	00-10	Rx. CHANNEL	1-16□AOFF		
	□iƒp□[ƒg□Eƒiƒ“ƒo□[,Æ“¯,¶□j					
40 1x 03	00 00 01	00-01	Rx. PITCH BEND	OFF□^ON	01	ON
40 1x 04	00 00 01	00-01	Rx. CH PRESSURE□iCAf□j	OFF□^ON	01	ON
40 1x 05	00 00 01	00-01	Rx. PROGRAM CHANGE	OFF□^ON	01	ON
40 1x 06	00 00 01	00-01	Rx. CONTROL CHANGE	OFF□^ON	01	ON
40 1x 07	00 00 01	00-01	Rx. POLY PRESSURE□iPAf□j	OFF□^ON	01	ON
40 1x 08	00 00 01	00-01	Rx. NOTE MESSAGE	OFF□^ON	01	ON
40 1x 09	00 00 01	00-01	Rx. RPN	OFF□^ON	01	ON
40 1x 0A	00 00 01	00-01	Rx. NRPN	OFF□^ON	00□i01*□j	
	OFF□iON*□j					

□¦ “dŒ¹“Š“üŽž□A,¨,æ,Ñ"GMƒVƒXƒef€□Eƒlƒ“",ðŽó□M,·,é,ÆRx. NRPN = OFF,É,È,è,Ü,·□B"GSƒŠƒZƒbƒg",ðŽó□M,·,é,ÆON,É,È,è,Ü,·□B

40 1x 0B	00 00 01	00-01	Rx. MODULATION	OFF□^ON	01	ON
40 1x 0C	00 00 01	00-01	Rx. VOLUME	OFF□^ON	01	ON
40 1x 0D	00 00 01	00-01	Rx. PANPOT	OFF□^ON	01	ON
40 1x 0E	00 00 01	00-01	Rx. EXPRESSION	OFF□^ON	01	ON
40 1x 0F	00 00 01	00-01	Rx. HOLD1	OFF□^ON	01	ON
40 1x 10	00 00 01	00-01	Rx. PORTAMENTO	OFF□^ON	01	ON
40 1x 11	00 00 01	00-01	Rx. SOSTENUTO	OFF□^ON	01	ON
40 1x 13	00 00 01	00-01	MONO□^POLY MODE	Mono□^Poly	01	Poly
			□i= CC# 126 01□^CC# 127 00□j			
40 1x 14	00 00 01	00-02	ASSIGN MODE	0 = SINGLE	00 at x = 0	
	SINGLE at x = 0					
				1 = LIMITED-MULTI	01 at x	
□, 0	LIMITED-MULTI at x □, 0					
				2 = FULL-MULTI		

□¦ ASSIGN MODE,Í□A“¯^êƒ`ƒƒƒ“ƒlƒ‹“¯^êƒm□[ƒg□Eƒiƒ“ƒo□[,Ì‰¹,ª□d,È,Á,½□ê□‡□i“¯‰¹˜A‘Å,ÆŒ¾,¢,Ü,·□j,Ìƒ{ƒCƒX□EƒAƒTƒCƒ“□^—□,ÌŽd•û,ÉŠÖ,·,éƒpƒ‰ƒ□□[ƒ^□[,Å,·□B, ,ç,©,¶,ßŠeƒp□[ƒg,É□Å“K,Èƒ,□[ƒh□iƒhƒ‰ƒ€□Eƒp□[ƒg,ÍSINGLE□i0□j□A,»,Ì‘¼,Ìƒp□[ƒg,ÍLIMITED-MULTI□i1□j□j,É□‰ŠÚ□Ý’è,³,ê,Ä,¢,Ü,·,©,ç□Aˆê”Ê“I,È‰‰‘t,Å,Í•Ï□X□Ý’è,Ì•K—v,Í, ,è,Ü,¹,ñ□B

40 1x 15	00 00 01	00-02	USE FOR RHYTHM PART	0 = OFF	00 at x	
□, 0	OFF at x □, 0					
				1 = MAP1	01 at x =	
00	MAP1 at x = 0					
				2 = MAP2		

□¦ ƒhƒ‰ƒ€□Eƒp□[ƒg,Æ,µ,ÄŽg—p,·,éƒp□[ƒg,Ì□Aƒhƒ‰ƒ€□Eƒ}ƒbƒv,ð□Ý’è,·,éƒpƒ‰ƒ□□[ƒ^□[,Å,·□B–{‹@,Å,Í□Å‘å2,Â,Ìƒhƒ‰ƒ€□Eƒ}ƒbƒv□iMAP1□AMAP2□j,ð“¯Žž,É□iˆÙ,È,Á,½ƒp□[ƒg,Å□jŽg—p,·,é,±,Æ,ª,Å,«,Ü,·□B□‰Šú□Ý’è,Å,ÍPart10□iMIDI CH = 10□Ax = 0□j,ªMAP1□i1□j,É□A,»,Ì‘¼,Ìƒp□[ƒg,Í’Ê□í,ÌŠyŠí‰¹,Ìƒp□[ƒg□iOFF□i0□j□j,É,È,Á,Ä,¢,Ü,·□B

40 1x 16	00 00 01	28-58	PITCH KEY SHIFT	-24 - +24□m”¼‰¹□n	40	0□m”¼
‰¹□n						
40 1x 18#			□ifjƒuƒ‹□Eƒf□[ƒ^,ðŽg—p□j			
40 1x 19	00 00 01	00-7F	PART LEVEL	0-127	64	100
			□i= CC# 7□j			
40 1x 1A	00 00 01	00-7F	VELOCITY SENSE DEPTH	0-127	40	64
40 1x 1B	00 00 01	00-7F	VELOCITY SENSE OFFSET	0-127	40	64
40 1x 1C	00 00 01	00-7F	PART PANPOT	-63□i□¶□j - +63□i‰E□j	40	0□i’†
‰›□j						
40 1x 1D	00 00 01	00-7F	KEY RANGE LOW	□iC-1□j-□iG9□j	00	C-1
40 1x 1E	00 00 01	00-7F	KEY RANGE HIGH	□iC-1□j-□iG9□j	7F	G 9
40 1x 1F	00 00 01	00-5F	CC1 CONTROLLER NUMBER		0-95	10
	16					
40 1x 20	00 00 01	00-5F	CC2 CONTROLLER NUMBER		0-95	11
	17					
40 1x 21	00 00 01	00-7F	CHORUS SEND LEVEL	0-127	00	0
			□i= CC# 93□j			
40 1x 22	00 00 01	00-7F	REVERB SEND LEVEL	0-127	28	40
			□i= CC# 91□j			
40 1x 23	00 00 01	00-01	Rx.BANK SELECT	OFF□^ON	01□i00*□j	
	ON□iOFF*□j					

□¦ "GMƒVƒXƒef€□Eƒlƒ“",ðŽó□M,·,é,ÆOFF,É,È,è,Ü,·□B“dŒ¹“Š“üŽž□A,¨,æ,Ñ"GSƒŠƒZƒbƒg",ðŽó□M,µ,½Žž,É,ÍON,É,È,è,Ü,·□B

40 1x 30	00 00 01	0E-72	TONE MODIFY 1	-50 - +50	40	0
			Vibrato rate□i= NRPN# 8□j			
40 1x 31	00 00 01	0E-72	TONE MODIFY 2	-50 - +50	40	0
			Vibrato depth□i= NRPN# 9□j			
40 1x 34	00 00 01	0E-72	TONE MODIFY 5	-50 - +50	40	0
			TVA Env.attack□i= NRPN# 99□j			
40 1x 35	00 00 01	0E-72	TONE MODIFY 6	-50 - +50	40	0
			TVA Env.decay□i= NRPN# 100□j			
40 1x 36	00 00 01	0E-72	TONE MODIFY 7	-50 - +50	40	0
			TVA Env.release□i= NRPN# 102□j			
40 1x 37	00 00 01	0E-72	TONE MODIFY 8	-50 - +50	40	0
			Vibrato delay□i= NRPN# 10□j			
40 1x 40	00 00 0C	00-7F	SCALE TUNING C	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 41#		00-7F	SCALE TUNING C#	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 42#		00-7F	SCALE TUNING D	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 43#		00-7F	SCALE TUNING D#	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 44#		00-7F	SCALE TUNING E	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 45#		00-7F	SCALE TUNING F	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 46#		00-7F	SCALE TUNING F#	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 47#		00-7F	SCALE TUNING G	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 48#		00-7F	SCALE TUNING G#	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 49#		00-7F	SCALE TUNING A	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 4A#		00-7F	SCALE TUNING A#	-64 - +63□mƒZƒ“ƒg□n	40	
	0□mƒZƒ“ƒg□n					
40 1x 4B#		00-7F	SCALE TUNING B	-64 - +63□mƒZƒ“ƒg□n	40	

0□mƒZƒ“ƒg□n

□¦ SCALE TUNING,Í□AƒIƒNƒ^□[ƒu“à,ÌŠe‰¹–¼,Ìƒsƒbƒ`,ð”÷’²□®,·,é‹@”\,Å,·□B‘SƒIƒNƒ^□[ƒu,Ì“¯ˆê‰¹–¼,Ìƒsƒbƒ`,ª“¯Žž,É•Ï,í,è,Ü,·□B□}0 cent□i40H□j,Å•½‹Ï—¥,Å,·□B

40 2x 00	00 00 01	28-58	MOD PITCH CONTROL	-24 - +24□m”¼‰¹□n	40	0□m”¼‰¹□n
40 2x 02	00 00 01	00-7F	MOD AMPLITUDE CONTROL	-100.0 - +100.0□m%□n	40	0□m%□n
40 2x 03	00 00 01	00-7F	MOD LFO1 RATE CONTROL	-10.0 - +10.0□mHz□n	40	0□mHz□n
40 2x 04	00 00 01	00-7F	MOD LFO1 PITCH DEPTH	0-600□mƒZƒ“ƒg□n	0A	47□mƒZƒ“ƒg□n
40 2x 06	00 00 01	00-7F	MOD LFO1 TVA DEPTH	0-100.0□m%□n	00	0□m%□n
40 2x 10	00 00 01	40-58	BEND PITCH CONTROL	0-24□m”¼‰¹□n	42	2□m”¼‰¹□n
40 2x 12	00 00 01	00-7F	BEND AMPLITUDE CONTROL	-100.0 - +100.0□m%□n	40	0□m%□n
40 2x 13	00 00 01	00-7F	BEND LFO1 RATE CONTROL	-10.0 - +10.0□mHz□n	40	0□mHz□n
40 2x 14	00 00 01	00-7F	BEND LFO1 PITCH DEPTH	0-600□mƒZƒ“ƒg□n	00	0□mƒZƒ“ƒg□n
40 2x 16	00 00 01	00-7F	BEND LFO1 TVA DEPTH	0-100.0□m%□n	00	0□m%□n
40 2x 20	00 00 01	28-58	CAf PITCH CONTROL	-24 - +24□m”¼‰¹□n	40	0□m”¼‰¹□n
40 2x 22	00 00 01	00-7F	CAf AMPLITUDE CONTROL	-100.0 - +100.0□m%□n	40	0□m%□n
40 2x 23	00 00 01	00-7F	CAf LFO1 RATE CONTROL	-10.0 - +10.0□mHz□n	40	0□mHz□n
40 2x 24	00 00 01	00-7F	CAf LFO1 PITCH DEPTH	0-600□mƒZƒ“ƒg□n	00	0□mƒZƒ“ƒg□n
40 2x 26	00 00 01	00-7F	CAf LFO1 TVA DEPTH	0-100.0□m%□n	00	0□m%□n

40 2x 40	00 00 01	28-58	CC1 PITCH CONTROL	-24 - +24□m”¼‰¹□n	40	0□m”¼‰¹□n
40 2x 42	00 00 01	00-7F	CC1 AMPLITUDE CONTROL	-100.0 - +100.0□m%□n	40	0□m%□n
40 2x 43	00 00 01	00-7F	CC1 LFO1 RATE CONTROL	-10.0 - +10.0□mHz□n	40	0□mHz□n
40 2x 44	00 00 01	00-7F	CC1 LFO1 PITCH DEPTH	0-600□mƒZƒ“ƒg□n	00	0□mƒZƒ“ƒg□n
40 2x 46	00 00 01	00-7F	CC1 LFO1 TVA DEPTH	0-100.0□m%□n	00	0□m%□n
40 2x 50	00 00 01	28-58	CC2 PITCH CONTROL	-24 - +24□m”¼‰¹□n	40	0□m”¼‰¹□n
40 2x 52	00 00 01	00-7F	CC2 AMPLITUDE CONTROL	-100.0 - +100.0□m%□n	40	0□m%□n
40 2x 53	00 00 01	00-7F	CC2 LFO1 RATE CONTROL	-10.0 - +10.0□mHz□n	40	0□mHz□n
40 2x 54	00 00 01	00-7F	CC2 LFO1 PITCH DEPTH	0-600□mƒZƒ“ƒg□n	00	0□mƒZƒ“ƒg□n
40 2x 56	00 00 01	00-7F	CC2 LFO1 TVA DEPTH	0-100.0□m%□n	00	0□m%□n

□œƒhƒ‰ƒ€□EƒZƒbƒgƒAƒbƒv□Eƒpƒ‰ƒ□□[ƒ^□[
m□Fƒhƒ‰ƒ€□Eƒ}ƒbƒv□Eƒiƒ“ƒo□[□i0 = MAP1□A1 = MAP2□j
rr□Fƒhƒ‰ƒ€□Eƒp□[ƒg,Ìƒm□[ƒg□Eƒiƒ“ƒo□[□i00H-7FH□F0-127□j

ƒAƒhƒŒƒX□iH□j	ƒTƒCƒY□iH□j	ƒf□[ƒ^□iH□j	ƒpƒ‰ƒ□□[ƒ^□[	□à–¾
41 m1 rr	00 00 01	00-7F	PLAY NOTE NUMBER	ƒsƒbƒ`□EƒR□[ƒX
41 m2 rr	00 00 01	00-7F	LEVEL	TVAƒŒƒxƒ‹
		□i= NRPN# 26□j		
41 m3 rr	00 00 01	00-7F	ASSIGN GROUP NUMBER	Non□A1-127
41 m4 rr	00 00 01	00-7F	PANPOT	-64□iƒ‰ƒ“ƒ_ƒ€□j□A-63□i□¶□j -+63□i‰E□j
		□i= NRPN# 28□A,½,¾,µƒ‰ƒ“ƒ_ƒ€,Ì□ê□‡,ð□œ,□j		
41 m5 rr	00 00 01	00-7F	REVERB SEND LEVEL	0.0-1.0
		□i= NRPN# 29□jƒhƒ‰ƒ€□Eƒp□[ƒg,ÌƒŠƒo□[ƒu□EƒŒƒxƒ‹,ÉŠ|,¯,ç,ê,é		

41 m6 rr	00 00 01	00-7F	CHORUS SEND LEVEL	0.0-1.0
		□i= NRPN# 30□jƒhƒ‰ƒ€□Eƒp□[ƒg,ÌƒR□[ƒ‰ƒX□EƒŒƒxƒ‹,ÉŠ|,¯,ç,ê,é		
41 m7 rr	00 00 01	00-01	Rx. NOTE OFF	OFF□^ON
41 m8 rr	00 00 01	00-01	Rx. NOTE ON	OFF□^ON

□¦ ƒhƒ‰ƒ€□EƒZƒbƒg,ð□Ø,èŠ·,¦,é,Æƒhƒ‰ƒ€□EƒZƒbƒgƒAƒbƒv□Eƒpƒ‰ƒ□□[ƒ^□[,Ì’l,Í,·,×,Ä□‰Šú‰»,³,ê,Ü,·□B

ŽQ□IŽ‘—¿

□œ10□i□”,Æ16□i□”,Ì‘Î‰ž•\□i16□i□”•\‹L,Ì□”Žš,ÌŒã,ë,É,ÍH,ð,Â,¯,Ä,¢,Ü,·□B□j

MIDI,Å,Í□Aƒf□[ƒ^’l,â□AƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒ□ƒbƒZ□[ƒW,ÌƒAƒhƒŒƒX,âƒTƒCƒY,É,Í□A7ƒrƒbƒg,²,Æ,Ì16□i•\‹L,ªŽg—p,³,ê,Ü,·□B10□i•\‹L,Æ,Ì‘Î‰ž•\,ÍŽŸ,Ì’Ê,è,Å,·□B

10□i	16□i	10□i	16□i	10□i	16□i	10□i	16□i
0	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	24H	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28H	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	0AH	42	2AH	74	4AH	106	6AH
11	0BH	43	2BH	75	4BH	107	6BH
12	0CH	44	2CH	76	4CH	108	6CH
13	0DH	45	2DH	77	4DH	109	6DH
14	0EH	46	2EH	78	4EH	110	6EH
15	0FH	47	2FH	79	4FH	111	6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H

22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87	57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	3AH	90	5AH	122	7AH
27	1BH	69	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH

- MIDIƒ`ƒƒƒ“ƒIƒ‹□AƒOƒ“ƒN□EƒZƒCƒNƒg□Aƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW,È,Ç,Ì10□i•\‹L,Í□A‘O•\,Ì10□i□”,É1,ð‘«,µ,½’I,É,È,Á,Ä,¢,Ü,·□B
- 7ƒrƒbƒg,²,Æ,Ì16□i•\‹L,Å,Í□A1ƒOƒCƒg,Ìƒf□[ƒ^,Å•\,¹,é’I,Í□Å‘å128’iŠK,Å,·□B,»,êˆÈ□ã,Ì•ª‰ð”\,Ìƒf□[ƒ^,Í•¡□”,ÌƒOƒCƒg,ðŽg,¢,Ü,·□B,½,Æ,¦,Î□Aaa bbH,Æ2ƒOƒCƒg,Ì7ƒrƒbƒg,²,Æ,Ì16□i•\‹L,³,ê,½’I,Í□Aaa x 128 + bb,Æ,È,è,Ü,·□B
- □},Ì•„□†,Ì, ,é’I,Í□A00H = -64□A40H = □}0□A7FH = +63,Æ,È,è□A10□i•\‹L,É,Í□ã•\,Ì10□i□”,©,ç64ˆø,¢,½’I,ðŽg,¢,Ü,·□B2ƒOƒCƒg,Ì□ê□‡,Í□A00 00H = -8192□A40 00H = □}0□A7F 7FH = +8191,Æ,È,è□A,½,Æ,¦,Îaa bbH,ð10□i•\‹L,·,é,Æaa bbH - 40 00H = aa x 128 + bb - 64 x 128,Æ,È,è,Ü,·□B
- □unibbled□v,Æ□‘,©,ê,½ƒf□[ƒ^,Ì□ê□‡,Í□A4ƒrƒbƒg,²,Æ,Ì16□i•\‹L,ªŽg—p,³,ê,Ü,·□B0a 0bH,Æ2ƒOƒCƒg,Ìƒjƒuƒ‹•\‹L,³,ê,½’I,Í□Aa x 16 + b,Æ,È,è,Ü,·□B

□ƒ—á1□„5AH,Ì10□i•\‹L,Í?
‘O•\,æ,è5AH = 90,È,è,Ü,·□B

□ƒ—á2□„7ƒrƒbƒg,²,Æ,Ì16□i•\‹L,³,ê,½’I12 34H,Ì10□i•\‹L,Í?
‘O•\,æ,è12H = 18□A34H = 52,Å,·,©,ç
18 x 128 + 52 = 2356
,Æ,È,è,Ü,·□B

□ƒ—á3□„0A 03 09 0D,Æƒjƒuƒ‹•\‹L,³,ê,½’I,Ì10□i•\‹L,Í?
‘O•\,æ,è0AH = 10□A03H = 3□A09H = 9□A0DH = 13,Å,·,©,ç
□i□i10 x 16 + 3□jx 16 + 9□jx 16 + 13 = 41885
,Æ,È,è,Ü,·□B

□f—á4□„10□i□”•\‹L,Ì1258,ðfjƒuƒ‹•\‹L,·,é,Æ?

16) 1258
16) 78 ... 10
16) 4 ... 14
  0 ... 4

‘O•\,æ,è0 = 00H□A4 = 04H□A14 = 0EH□A10 = 0AH,Å,·,©,ç
00 04 0E 0AH
,Æ,È,è,Ü,·□B

□œŽÀ□Û,ÌMIDIƒ□ƒbƒZ□[ƒW,Ì—á

□f—á1□„92 3E 5F
9n,Ífm□[ƒg□EƒIƒ“,ÌƒXƒe□[ƒ^ƒX,Å□An,ÍMIDIƒ`ƒƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[,Å,·□B2H = 2□A3EH = 62□A5FH = 95,Å,·,©,ç□A,±,ê,ÍMIDI CH = 3□Aƒm□[ƒg□Eƒif“ƒo□[62□i‰¹–¼,ÍD4□j□AƒxƒJ□ƒVƒeƒB□[95,Ìƒm□[ƒg□EƒIƒ“□Eƒ□ƒbƒZ□[ƒW,Å,·□B

□f—á2□„CE 49
CnH,Ífvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW,ÌƒXƒe□[ƒ^ƒX,Å□An,ÍMIDIƒ`ƒƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[,Å,·□BEH = 14□A49H = 73,Å,·,©,ç□A,±,ê,ÍMIDI CH = 15□Aƒvƒ□ƒOƒ‰ƒ€□Eƒif“ƒo□[74□iGS,Å,Í Flute□j,Ìƒvƒ□ƒOƒ‰ƒ€□Eƒ`ƒFƒ“ƒW□Eƒ□ƒbƒZ□[ƒW,Å,·□B

□f—á3□„EA 00 28
EnH,Ífsƒbƒ`□Eƒxƒ“ƒh□Eƒ`ƒFƒ“ƒW,ÌƒXƒe□[ƒ^ƒX,Å□An,ÍMIDIƒ`ƒƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[,Å,·□B‘æ2ƒoƒCƒg□i00H = 0□j,ªƒsƒbƒ`□Eƒxƒ“ƒh’l,Ì‰ºˆÊƒoƒCƒg□A‘æ3ƒoƒCƒg□i28H = 40□j,ª□ãˆÊƒoƒCƒg,Å,·,ª□Aƒsƒbƒ`□Eƒxƒ“ƒh’l,Í40 00H□i= 64 x 128 + 0 = 8192□j,ð0,Æ,·,é•„□†,Ì, ,é’l,Å,·,©,ç□A,±,Ì□ê□‡,Ìƒsƒbƒ`□Eƒxƒ“ƒh’l,Í□A 28 00H - 40 00H = 40 x 128 + 0 -□i64 x 128 + 0□j= 5120 - 8192 = -3072

ƒsƒbƒ`□Eƒxƒ“ƒh□EƒZƒ“ƒVƒeƒBƒrƒeƒB□[,ª2”¼‰¹,É,È,Á,Ä,¢,é,Æ,·,é,Æ□A-8192□i00 00H□j,Å-200ƒZƒ“ƒg,¾,¯ƒsƒbƒ`,ð•Ï‰»,³,¹,Ü,·,©,ç□A,±,Ì□ê□‡,Í-200 x□i-3072□j□€□i-8192□j= -75ƒZƒ“ƒg,Ìƒsƒbƒ`□Eƒxƒ“ƒh,ðMIDI CH = 11,ÉŽwŽ¦,µ,Ä,¢,é,±,Æ,É,È,è,Ü,·□B

□f—á4□„B3 64 00 65 00 06 0C 26 00 64 7F 65 7F
BnH,ÍƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒW,ÌƒXƒe□[ƒ^ƒX,Å□An,ÍMIDIƒ`ƒƒƒ“ƒIƒ‹□Eƒiƒ“ƒo□[,Å,·□BƒRƒ“ƒgƒ□□[ƒ‹□Eƒ`ƒFƒ“ƒ

W,Í□A‘æ2ƒoƒCƒg,ªƒRƒ“ƒgƒ□□[ƒ‰□[□Eƒiƒ“ƒo□[□A‘æ3ƒoƒCƒg,Í,»,Ìƒpƒ‰ƒ□□[ƒ^□[,Ì’l,Å,·□BMIDI,Å,Í□Aƒ‰ƒ“ƒjƒ“ƒO□EƒXƒe□[ƒ^ƒX,Æ,¢,Á,Ä□A“¯,¶ƒXƒe□[ƒ^ƒX,Ìƒ□ƒbƒZ□[ƒW,ª˜A‘±,·,é□ê□‡,Í□A2,Â,ßˆÈ□~,ÌƒXƒe□[ƒ^ƒX,ð□È—ª,µ,Ä,à,æ,¢,±,Æ,É,È,Á,Ä,¢,Ü,·,©,ç□A,±,Ìƒ□ƒbƒZ□[ƒW,Íˆ‰º,Ì□î•ñ,ª□‡”Ô,É‘—,ç,ê,Ä,¢,Ü,·□B

B3 64 00 MIDI CH = 4,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì‰ºˆÊƒoƒCƒg□F00H
□iB3□j65 00 MIDI CH = 4,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì□ãˆÊƒoƒCƒg□F00H
□iB3□j06 0C MIDI CH = 4,Éƒpƒ‰ƒ□□[ƒ^□[’l,Ì□ãˆÊƒoƒCƒg□F0CH
□iB3□j26 00 MIDI CH = 4,Éƒpƒ‰ƒ□□[ƒ^□[’l,Ì‰ºˆÊƒoƒCƒg□F00H
□iB3□j64 7F MIDI CH = 4,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì‰ºˆÊƒoƒCƒg□F7FH
□iB3□j65 7F MIDI CH = 4,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì□ãˆÊƒoƒCƒg□F7FH

,Â,Ü,è□AMIDI CH = 4,ÌRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[00 00H,É0C 00H,Ìƒpƒ‰ƒ□□[ƒ^□[’l,ð‘—,è□A,»,ÌŒãRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[7F 7FH,É□Ý’è,·,éƒ□ƒbƒZ□[ƒW,Å,·□B

RPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[00 00H,Ì‹@”\,Íƒsƒbƒ`□Eƒxƒ“ƒh□EƒZƒ“ƒVƒeƒBƒrƒeƒB□[,Å□Aƒpƒ‰ƒ□□[ƒ^□[’l,Ì□ãˆÊƒoƒCƒg,ª”¼‰¹’Pˆ Ê,ðŽ¦,µ,Ä,¢,Ü,·□B,±,Ì—á,Å,Íƒpƒ‰ƒ□□[ƒ^□[’l,Ì□ãˆÊƒoƒCƒg,Í0CH = 12,Å,·,©,ç□Aƒsƒbƒ`ƒxƒ“ƒh,Ì□Å‘å•Ï‰»•□,ð□}12”¼‰¹□i1ƒIƒNƒ^□[ƒu□j,É□Ý’è,µ,Ä,¢,Ü,·□B□iGS‰¹Œ¹,Å,Íƒsƒbƒ`□Eƒxƒ“ƒh□EƒZƒ“ƒVƒeƒBƒrƒeƒB□[,Ì‰ºˆÊƒoƒCƒg,Í–³Ž‹,³,ê,Ü,·,ª□A,Ç,Ì‹@Ší,Å,à□³,µ,“®□ì,³,¹,é,½,ß,É‰ºˆÊƒoƒCƒg□iƒpƒ‰ƒ□□[ƒ^□[’l,Í0□j,àˆê□□,É‘—,è,Ü,µ,å,¤□B□j

RPN,âNRPN,Íˆê“xƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,ð□Ý’è,·,é,Æ□A,»,ÌŒã“¯ˆê`ƒƒ“ƒIƒ‹,É‘—,ç,ê,½ƒf□[ƒ^□EƒGƒ“ƒgƒŠ□[,ª‘S,Ä—LŒø,É,È,Á,Ä,µ,Ü,¤,½,ß□A•K—v,Èƒpƒ‰ƒ□□[ƒ^□[’l,ð‘—,Á,½Œã,Åƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,ð7F 7FH,É□Ý’è,µ,ÄŒë“®□ì,ð–hŽ~,·,é,±,Æ,ª□„□§,³,ê,Ä,¢,Ü,·□B□ÅŒã,Ì□iB3□j64 7F□iB3□j65 7F,Í,»,Ì,½,ß,Ì,à,Ì,Å,·□B

‹Èƒf□[ƒ^□i,½,Æ,¦,ÎƒXƒ^ƒ“ƒ_□[ƒhMIDIƒtƒ@ƒCƒ‹,Ìƒf□[ƒ^□j’†,Å,Í□ƒ—á4□„,Ì,æ,¤,É‘½,,ÌƒCƒxƒ“ƒg,ðƒ‰ƒ“ƒjƒ“ƒO□EƒXƒe□[ƒ^ƒX,Å‹L□q,·,é,±,Æ,Í□D,Ü,µ,, ,è,Ü,¹,ñ□B‹È’†,Å□Aƒ|□[ƒY□^‘□‘—,è□^Šª,«–ß,µ□A,È,Ç,Ì‘€□ì,ð□s,È,Á,½□ê□‡,É□AƒV□[ƒPƒ“ƒT□[,ª□³,µ,¢ƒXƒe□[ƒ^ƒX,ð□o—Í,Å,«,¸□A‰¹Œ¹,ªŒë,Á,½‰ðŽß,ð,µ,Ä,µ,Ü,¤‰Â”\□«,ª, ,è,Ü,·□B,·,×,ÄÌƒCƒxƒ“ƒg,É,»,ê,¼,êƒXƒe□[ƒ^ƒX,ð,Â,¯,é,æ,¤,É,µ,Ä,,¾,³,¢□B

,Ü,½□ARPN,âNRPN,Íƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì□Ý’è,Æƒpƒ‰ƒ□□[ƒ^□[’l,Ì‘—□M,ª□³,µ,¢□‡□˜,Å□s,È,í,ê,È,¯,ê,Î,È,è,Ü,¹,ñ□BƒV□[ƒPƒ“ƒT□[,É,æ,Á,Ä,Í□A“¯ˆê□i,Ü,½,Í‹ß□Ú,µ,½□jƒNƒ□ƒbƒN,É‹L□q,³,ê,½ƒCƒxƒ“ƒg,Ì‘—□M□‡□˜,ªƒf□[ƒ^,É‹L□Ú,³,ê,Ä,¢,é□‡□˜,Æ•Ï,í,Á,Ä,µ,Ü,¤,à,Ì,à, ,è,Ü,·,©,

ç□AŠeƒCƒxƒ“ƒg,ÌŽž□□,ð□iTPQN = 96,Å1-Tick□ATPQN = 480 ,È,ç5-Ticks’ö“x□j,¸,ç,µ,Ä‹L□q,·,é,Ì,ª,æ,¢,Å,µ,å,¤□B

□¦TPQN□FTicks Per Quarter Note□i4•ª‰¹•„, ,½,è,ÌƒeƒBƒbƒN□”□j

□œƒ`ƒ…□[ƒjƒ“ƒO,É,Â,¢,Ä
MIDI,Å□Aƒp□[ƒg,²,Æ,Ìƒ`ƒ…□[ƒjƒ“ƒO,ð,·,é,É,Í□ARPN #1□iƒ}ƒXƒ^□[□Eƒtƒ@ƒCƒ“□Eƒ`ƒ…□[ƒjƒ“ƒO□j,ð•K—v,ÈMIDI CH,É‘—,è,Ü,·□B
MIDI,Å□A‘Sƒp□[ƒg,Ìƒ`ƒ…□[ƒjƒ“ƒO,ð,·,é,É,Í□AŽg—p,µ,Ä,¢,é‘S•”,ÌMIDI CH,ÉRPN #1,ð,»,ê,¼,ê‘—,é,©□A,Ü,½,ÍƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu,ÅMASTER TUNE□iƒAƒhƒŒƒX40 00 00H□j,ð‘—,è,Ü,·□B
RPN #1,Í□A–ñ0.012ƒZƒ“ƒg□i□³Šm,É,Í100□^8192ƒZƒ“ƒg□j,Ì□AƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu,ÌMASTER TUNE,Í0.1ƒZƒ“ƒg,Ì□×,©,³,Åƒ`ƒ…□[ƒjƒ“ƒO,ÌŽw’è,ª,Å,«,Ü,·□BƒZƒ“ƒg,Æ,Í□A1,Â,Ì”¼‰¹,Ì‰¹’ö,ÌŠÔ,ð100“™•ª,µ,½ƒ`ƒ…□[ƒjƒ“ƒO,Ì’PˆÊ,Å,·□B
RPN #1□iƒ}ƒXƒ^□[□Eƒtƒ@ƒCƒ“□Eƒ`ƒ…□[ƒjƒ“ƒO□j,ÆƒVƒXƒeƒ€□EƒGƒNƒXƒNƒ‹□[ƒVƒu,ÅMASTER TUNE,Ì’l,Í□A,»,ê,¼,ê,Ìƒp□[ƒg,Å‰ÁŽZ,³,ê,ÄŠeƒp□[ƒg,ÌŽÀ□Û,Ì”‰¹ƒsƒbƒ`,ªŒˆ,Ü,è,Ü,·□B

,æ,Žg,¤ƒ`ƒ…□[ƒjƒ“ƒO,Ì’l,Í‰º,Ì•\,ðŽQ□Æ,µ,Ä,,¾,³,¢□B’l,Í16□i•\‹L□iƒJƒbƒR“à,Í□\□i•\‹L□j,É,È,Á,Ä,¢,Ü,·□B

Hz in A4	cent	RPN #1	Sys.Ex. 40 00 00
445.0	+19.56	4C 43 (+1603)	00 04 0C 04 (+196)
444.0	+15.67	4A 03 (+1283)	00 04 09 0D (+157)
443.0	+11.76	47 44 (+ 964)	00 04 07 06 (+118)
442.0	+ 7.85	45 03 (+ 643)	00 04 04 0F (+ 79)
441.0	+ 3.93	42 42 (+ 322)	00 04 02 07 (+ 39)
440.0	0.00	40 00 (0)	00 04 00 00 (0)
439.0	- 3.94	3D 3D (- 323)	00 03 0D 09 (- 39)
438.0	- 7.89	3A 7A (- 646)	00 03 0B 01 (- 79)

□f—á□„MIDI channel 3,Ìƒ`ƒ…□[ƒjƒ“ƒO,ðA4 = 442.0Hz,É,·,é□ê□‡
MIDI CH = 3,ÉRPN#1,É‘—,è,Ü,·□B’l,Í□A□ã•\,©,ç45 03H,Å,·□B

B2 64 00 MIDI CH = 3,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì‰ºˆÊƒoƒCƒg□F00H
□iB2□j65 01 MIDI CH = 3,ÉRPNƒpƒ‰ƒ□□[ƒ^□[□Eƒiƒ“ƒo□[,Ì□ãˆÊƒoƒCƒg□F01H
□iB2□j06 45 MIDI CH = 3,Éƒpƒ‰ƒ□□[ƒ^□[’l,Ì□ãˆÊƒoƒCƒg□F45H

iB2j26 03   MIDI CH = 3,Éƒpƒ‰ƒ[ƒ^[’l,Ì‰ºˆÊƒoƒCƒgF03H
iB2j64 7F   MIDI CH = 3,ÉRPNƒpƒ‰ƒ[ƒ^[Eƒiƒ“ƒo[,Ì‰ºˆÊƒoƒCƒgF7FH
iB2j65 7F   MIDI CH = 3,ÉRPNƒpƒ‰ƒ[ƒ^[Eƒiƒ“ƒo[,ÌãˆÊƒoƒCƒgF7FH

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ƒXƒP[ƒ‹Eƒ`ƒ…[ƒ“,ÍAC`B,»,ê,¼,ê,Ìƒsƒbƒ`,ð”÷’²®,·,é‹@”\
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[ƒ“,ðÝ’è,·,é,±,Æ,ÅA•½‹Ï—¥ˆÈŠO,Ì,³,Ü,´,Ü,È‰¹—¥,Å‰‰‘t,·,é,±,Æ,ª,Å,«,Ü,·B,±,±,Å,ÍA—
á,Æ,µ,Ä3Ží—Þ,ÌÝ’è,ð–¾,µ,Ü,·B

›•½‹Ï—¥
1ƒIƒNƒ^[ƒu,ð12“™•ª,µ,½‰¹—¥,ÅAŒ»ÝA¼—m‰¹Šy,ð’†S,É,Å,àL,Žg,í,ê,Ä,¢,Ü,·B–
{‹@,ÌƒXƒP[ƒ‹Eƒ`ƒ…[ƒ“‹@”\,Ì‰ŠúÝ’è,Í•½‹Ï—¥,É,È,Á,Ä,¢,Ü,·B

›ƒ³—¥iŽå‰¹,ªCj
•½‹Ï—¥,Æ”ä,×,é,ÆAŽå—v3˜a‰¹,ª,Æ,Ä,à”ü,µ,‹¿,«,Ü,·B,µ,©,µ1,Â,Ì’²,Å,µ,©,»,ÌŒø
‰Ê,Í“¾,ç,ê,¸A“]’²,·,é,Æ˜a‰¹,ª‘÷,Á,Ä,µ,Ü,¢,Ü,·B,±,±,Å,ÍŽå‰¹,ðC,Æ,·,é’²,ÌÝ’è,ðÐ
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›ƒAƒ‰ƒrƒA•—‰¹ŠK
ƒXƒP[ƒ‹Eƒ`ƒ…[ƒ“‹@”\,ðŽg,¤,±,Æ,ÅA,³,Ü,´,Ü,È–¯‘°‰¹Šy,Ìƒ`ƒ…[ƒjƒ“ƒO,ª,Å,«,Ü,·B,±,±
,Å,ÍA‘ã•\“I,ÈƒAƒ‰ƒrƒA•—‰¹ŠK,Ìƒf[ƒ^,ðÐ‰î,µ,Ü,·B

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‰¹–¼	•½‹Ï—¥	ƒ³—¥iŽå‰¹,ªCj	ƒAƒ‰ƒrƒA•—‰¹ŠK
C	0	0	-6
C#	0	-8	+45
D	0	+4	-2
D#	0	+16	-12
E	0	-14	-51
F	0	-2	-8
F#	0	-10	+43
G	0	+2	-4
G#	0	+14	+47
A	0	-16	0

A#	0	+14	-10
B	0	-12	-49

•\,Ì’I,Ì’Pˆ Ê,ÍƒZƒ“ƒg,Å,·□BSCALE TUNING,Ì‹L□q,ðŽQ□Æ,µ,Ä16□i□”,É•ÏŠ·,µ□AƒGƒNƒXƒNƒ‹□[ƒVƒu□Eƒf□[ƒ^,Æ,µ,Ä‘—□M,µ,Ä,,¾,³,¢□B—á,¦,Î□Aƒp□[ƒg1,ÌƒXƒP□[ƒ‹□Eƒ`ƒ…□[ƒ“,ðƒAƒ‰ƒrƒA•—,É,·,é,É,Í□Aˆ È‰º,Ìƒf□[ƒ^,ð‘—,Á,Ä,,¾,³,¢□B

F0 41 10 42 12 40 11 40 3A 6D 3E 34 0D 38 6B 3C 6F 40 36 0F 50 F7

ƒgƒ‰ƒuƒ‹ƒVƒ…□[ƒeƒBƒ“ƒO Q&A

,p ”‰¹□”,ª□,È,¢,æ,¤,È,ñ,Å,·,¯,Ç□A,È,º,Å,µ,å,¤,©□H

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VSC-55,Í□AƒNƒ□ƒbƒNŽü”g□”60MHzˆÈ□ã,ÌPentiumƒvƒ□ƒZƒbƒT,ð“‹□Ú,µ,½PC,Å,È,¢,Æ□A□\•ª,ÈƒpƒtƒH□[ƒ}ƒ“ƒX,ð”Šö,Å,«,Ü,¹,ñ□A

CPU,Ì□è—L—¦,ð□¬,³,□Ý’è,µ,·,¬,Ä,¢,Ü,¹,ñ,©□H
•t‘®,Ìƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,Å□A,²Šm”F,,¾,³,¢□B

,»,Ì‘¼,É□A,¨Žg,¢,ÌƒRƒ“ƒsƒ…□[ƒ^,Ì“®□ìŠÂ‹«□i‘¼,Ìƒhƒ‰ƒCƒo,âƒAƒvƒŠƒP□[ƒVƒ‡ƒ“□j,Ì□ó‹µ,É,æ,Á,Ä,Í□A□\•ª,ÈƒpƒtƒH□[ƒ}ƒ“ƒX,ª“¾,ç,ê,È,¢□ê□‡,à, ,è,Ü,·□B

,p ‰¹,ª“r□Ø,ê,éŽ–,ª, ,é,Ì,Å,·,ª□A,È,º,Å,µ,å,¤,©□H

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ƒm□[ƒg□Eƒpƒ\ƒRƒ“,È,Ç,Ì□ê□‡□Aƒpƒ□□[□Eƒ}ƒl□[ƒWƒ□ƒ“ƒg‹@”\,ª“,¢,Ä,¢,é,Æ•p”É,É‰¹□Ø,ê,ª□¶,¶,é,±,Æ,ª, ,è,Ü,·□B,±,Ì,æ,¤,È□ê□‡,Í□Aƒpƒ□□[□Eƒ}ƒl□[ƒWƒ□ƒ“ƒg‹@”\,ðOFF,É,µ,Ä,,¾,³,¢□B

ƒ□ƒ,ƒŠ□[,ð‘½,Žg—p,·,éƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,ð“¯Žž,É“®,©,µ,Ä,¢,é□ê□‡,â□A‰‰‘t’†,É‘¼,ÌƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,ð‹N“®,³,¹,é,Æ□A‰¹□º,ª“r□Ø,ê,é,±,Æ,ª, ,è,Ü,·□B

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ƒtƒ□ƒbƒs□[ƒfƒBƒXƒN,âCD-ROMƒhƒ‰ƒCƒu,Ö,ÌƒAƒNƒZƒX,ð□s,¤,Æ□A‰¹□º,ª“r□Ø,ê,éŽ–,ª, ,è,Ü,·□B

,»,Ì‘¼,É□A,¨Žg,¢,ÌƒRƒ“ƒsƒ…□[ƒ^,Ì“®□ìŠÂ‹«□i‘¼,Ìƒhƒ‰ƒCƒo,âƒAƒvƒŠƒP□[ƒVƒ‡ƒ“□j,Ì□ó‹µ,É,æ,Á,Ä□A‰¹□Ø,ê,ª‹N,±,é□ê□‡,à, ,è,Ü,·□B

,p SMF□iƒXƒ^ƒ“ƒ_□[ƒhMIDIƒtƒ@ƒCƒ‹□j,ð□Ä□¶,µ,Ä,à□AVSC-55ˆÈŠO,Ì‰¹Œ¹,ª–Â,é,Ì,Å,·,ª□A,È,º,Å,µ,å,¤,©□H

,` MIDI□o—Í,ª□uRoland VSC-55□v,É,È,Á,Ä,¢,é,©,Ç,¤,©,ðŠm”F,µ,Ä,,¾,³,¢□B
MIDI□o—Í,Í□A[ƒRƒ“ƒgƒ□□[ƒ‹ƒpƒlƒ‹]-[ƒ}ƒ‹ƒ`ƒ□ƒfƒBƒA]-[MIDI],Ì’†,Ì[MIDI□o—Í],Å□Ý’è,Å,«,Ü,·□B

ƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,É,æ,Á,Ä,Í□A,±,Ì□Ý’è,É□],í,È,¢,à,Ì,à, ,è,Ü,·□B,»,Ì□ê□‡,ÍƒAƒvƒŠƒP□[ƒVƒ‡ƒ“Ž©□g,ªMIDI,Ì□o—Í□æ,ðŒˆ’è,µ,Ä,¢,é□ê□‡,ª, ,è,Ü,·□BƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,Ìƒ}ƒjƒ…ƒAƒ‹,ð,²——,,¾,³,¢□B

,È,¨VSC-55,Ìƒ†□[ƒeƒBƒŠƒeƒB□Eƒ\ƒtƒg,ÌƒvƒŒ□[ƒ„□[,à□AƒRƒ“ƒgƒ□□[ƒ‹ƒpƒlƒ‹,Ì□Ý’è,É□],¢,Ü,·□B

,p ‰‰‘t,Ìƒeƒ“ƒ|,ª—□,ê,é,Ì,Å,·,ª□A,Ç,¤,·,ê,Î,æ,¢,Å,µ,å,¤,©□H

,` ƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,Ì[CUSTOM SETUP]ƒ{ƒ^ƒ“,ð‰Ÿ,µ,Ä□Aƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX,Ì’†,Ì[Polyphony limit],à,µ,,Í□A[CPU load limit],Ì’l,ð‰º,°,Ä,Ý,Ä,,¾,³,¢□B

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,` ƒ†□[ƒeƒBƒŠƒeƒB□[□Eƒ\ƒtƒg,Ì[CUSTOM SETUP]ƒ{ƒ^ƒ“,ð‰Ÿ,µ,Ä□Aƒ_ƒCƒAƒ□ƒOƒ{ƒbƒNƒX,Ì’†,Ì[Volume],Ì’l,ð‰º,°,ÄŒ©,Ä,,¾,³,¢□B

,p VSC-55,Å‰‰‘t’†□A‘¼,ÌƒAƒvƒŠƒP□[ƒVƒ‡ƒ“,©,ç‰¹,ª□o,È,¢,Ì,Å,·,ª□H

**,`** [ƒRƒ“ƒgƒ□□[ƒ‹ƒpƒlƒ‹]-[ƒ}ƒ‹ƒ`ƒ□ƒfƒBƒA]-[ƒI□[ƒfƒBƒI],Ì’†,Ì[□Ä□¶],Ì□Ý’è,Ì□Ý’è,ðŠm”F,µ,Ä,-,¾,³,¢□B—D□æ,·,éƒfƒƒoƒCƒX,Í□ARoland VSC-55,É,È,Á,Ä,¢,é,Å,µ,å,¤,©□B,Ü,½□A□u—D□æ,·,éƒfƒƒoƒCƒX,Ì,ÝŽg,¤□v,Ìƒ`ƒFƒbƒN,àŠO,µ,Ä,,¾,³,¢□B

Žå,ÈŽd—I

ƒp□[ƒg□”	16
□Å‘å“¯Žž”‰¹□”	128‰¹
	□¦ ƒRƒ“ƒsƒ…□[ƒ^□[,ÌŽd—I□ifNƒ□fbƒNŽü”g□”,È,Ç□j,â‰¹Ž¿□Ý’è,¨,æ,ÑƒGƒtƒFƒNƒgŽg—p,Ì—L–³,È,Ç,É,æ,Á,Äˆ Ù,È,è,Ü,·□B
“à‘ ‰¹□F□”	ƒvƒŠƒZƒbƒg‰¹□F□”□F226
	ƒhƒ‰ƒ€‰¹□FƒZƒbƒg□F9
ƒGƒtƒFƒNƒg	ƒŠƒo□[ƒu□i8ƒ^ƒCƒv□j
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ƒI□[ƒƒBƒI□o—Í	ƒXƒeƒŒƒI16ƒrƒbƒg□AƒTƒ“ƒvƒŠƒ“ƒOŽü”g□”22.05kHz, 11.025kHz
ƒI□[ƒƒBƒI“ü—Í	ƒXƒeƒŒƒI8, 16ƒrƒbƒg□AƒTƒ“ƒvƒŠƒ“ƒOŽü”g□”44.1KHz, 22.05kHz, 11.025kHz

“®□ìŠÂ‹«

VSC-55,Í□Aˆ È‰º,ÌŠÂ‹«,ðŽ□,ÂƒRƒ“ƒsƒ…□[ƒ^□[□ã,Å“®□ì,µ,Ü,·□B

OS□F	Microsoft(R) Windows(R) 95 Operating System
CPU□^ƒNƒ□ƒbƒN□F	Pentium□^60MHzˆ È□ã
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□– Microsoft□AWindows‚Í□A•Ä□‘‹y‚Ñ‚»‚Ì‘¼‚Ì□‘‚É‚¨‚¯‘é“o˜^□¤•W‚Å‚·□B

□– Pentium‚Í□AƒCƒ“ƒeƒ‹ŽÐ‚Ì□¤•W‚Å‚·□B

GMƒVƒXƒeƒ€□^GSƒtƒH□[ƒ}ƒbƒg,É,Â,¢,Ä

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