1-1 CHANNEL MESSAGES [H] :Hex, [D] :Decimal

Status [Hex]				.rd [D]	Description	(Transmitted by)	ENA
			+ 40	(64)		(Key Off) *1	
8n	kk (1	, ,	•	1 - ,	A
9n	kk (VV	(vv)	Note On (vv)=1-127	2 - /	A
An	kk (VV	(vv)		(Seq. recorded data)	T,Q
Bn	00 (mm	(mm)		(BANK keys, Prog/Combi change) *2	PB
Bn	01 (VV	(vv)		(Joy Stick +Y)	C
Bn	02 (VV	(vv)		(Joy Stick -Y)	C
Bn	04 (VV	(vv)	Foot Pedal	(A.Pdl/Knob-B = Foot Pedal)	C
Bn	05 (vv	(vv)	Portamento Time	(A.Pdl/Knob-B = Porta.Time,S Chg) (ARP ON/OFF, GATE, VELOCITY) *3	C
Bn	06 (vv	(vv)			C
Bn	07 (vv	(vv)		(A.Pdl/Knob-B = Volume, S/C Chg)	C
Bn	08 (vv	(vv)	_	(A.Pdl/Knob-B = PostIFXPan, S Chg)	C
Bn	0A (vv	(vv)		(A.Pd1/Knob-B = Pan,S Chg)	C
Bn	0B (vv	(vv)		(A.Pdl/Knob-B = Expression)	C
Bn	0C (vv	(vv)		(A.Pdl/Knob-B = FX Control1)	C
Bn	0D (13)	VV	(vv)		(A.Pdl/Knob-B = FX Control2)	C
Bn	10 (16)	vv	(vv)	Multi Purpose Ctrl1	(Ribbon Controller)	C
Bn	11 (17)	vv	(vv)	Multi Purpose Ctrl2	(Knob-B = Knob Mod1)	C
Bn	12 (18)	vv	(vv)	Multi Purpose Ctrl3	(Value Slider)	C
Bn	13 (19)	vv	(vv)	Multi Purpose Ctrl4	(Knob-B = Knob Mod2)	C
Bn	14 (20)	vv	(vv)		(Knob-B = Knob Mod3)	C
Bn	15 (21)	vv	(vv)		(Knob-B = Knob Mod4)	C
Bn	20 (32)	bb	(bb)	Bank Select(LSB)	(BANK keys, Prog/Combi change) *2	PB
Bn	40 (64)	vv	(vv)		(Damper)	C
Bn	41 (65)	00/7F	(00/127)	Portamento Off/On	(SW1/SW2/A.SW = Porta.SW, S Chg)	C
Bn	42 (66)	00/7F	(00/127)	Sostenuto Off/On		C
Bn	43 (67 ⁾	vv	(vv)		(A.SW =Porta.SW)	C
Bn	46 (vv	(vv)	Sound Controller 1	(Knob-B = F/A Sustain)	C
Bn	47 (vv	(vv)		(Knob-1A, Knob-B = Resonance/HPF)	С
Bn	48 (vv	(vv)		(Knob-1A, Knob-B = F/A Release)	Ĉ
Bn	49 (vv	(vv)		(Knob-B = F/A Attack)	C
Bn	4A (,	vv	(vv)		(Knob-1A, Knob-B = LPF Cutoff)	C
Bn	4B (vv	(vv)		(Knob-B = F/A Decay)	C
Bn	4C (vv	(vv)		(Knob-B = Pitch LF01 Spd)	Ĉ
Bn	4D (vv	(vv)		(Knob-B = Pitch LF01 Dep)	Ĉ
Bn	4E (vv	(vv)		(Knob-B = Pitch LF01 Dly)	C
Bn	4F (vv	(vv)		(Knob-1A, Knob-B = Filter EG Int)	C
Bn	50 (00/7F	(00/127)	Multi Purpose Ctrl5		C
Bn	51 (00/7F	(00/127)	Multi Purpose Ctrl6		C
Bn	52 (00/7F	(00/127)	Multi Purpose Ctrl7		C
Bn	5B (VV	(vv)			C
Bq	5C (,	00/7F	(00/127)	Effect 2 Depth	(A.Pdl = MFX Send2, S Chg) (All Insert FX Off/On)	C
Вn	5D (1 '		Effect 2 Depth	(A.Pdl = MFX Send1, S Chg)	C
			00/7F	(vv)			C
Bg	5E ((00/127)	Effect 4 Depth	(Master FX1 Off/On)	C
Bg	5F (,	00/7F	(00/127)	Effect 5 Depth	(Master FX2 Off/On) (Knob-B = MIDI CC#00-95)	
Bn	CC (vv	(vv)			C
Bn	62 (SS	(ss)		(ARP ON/OFF, GATE, VELOCITY) *3	C
Bn	63 (tt	(tt)		(ARP ON/OFF, GATE, VELOCITY) *3	
Bn G	CC (vv	(vv)		(Seq. recorded data)	Q
Cn	pp (Program Change	(Prog/Combi change) *2 (After Touch)	P
Dn En	vv (,	bb		Channel Pressure	(After Touch)	T C
	bb (+		aa +	(bb) 	Bender Change -+	Ooy Stick X	C
dl			able Ped				
W			able Swi				
hg	: Tr	ansm			Song No.(Seq. mode). (
119						.(Seq. mode). (Status = EXT, EX2, BTH)	

When in Combination/Sequencer/Song Play mode, each timbre's/track's channel.(Status = EXT,EX2 or BTH)

g : Always Global Channel No. (0 - 15)

```
ENA = A : Always Enabled
```

```
C : Enabled when Enable Control Change in Global mode is checked
```

```
= 24 - 108 : TRITON (61keys + Transpose)
= 16 - 115 : TRITON pro (76keys + Transpose)
= 09 - 120 : TRITON proX (88keys + Transpose)
= 00 - 127 : Sequencer and Arpeggiator
        : kk = 24 - 108 : TRITON
*1
```

```
Combination MIDI Out[
000 - 127 : BankA 000 - 127 : mm,bb,pp
000 - 127 : B 000 - 127 :
000 - 127 : C 000 - 127 :
000 - 127 : D 000 - 127 :
                                                                                      MIDI Out[Hex] (Bank Map is KORG) mm,bb,pp = 00,00, 00 - 7F
                                                                                                                                                           (Bank Map is GM(2))
= 3F,00, 00 - 7F
3F,01, 00 - 7F
*2 : Program
                                                                                                                                                            (Bank Map
= 3F,00,
3F,01,
3F,02,
3F,03,
                                                                                                                                       00 - 7F
00 - 7F
           BankA
                                                                                                                      00,01,
                  В
                                                                                                                                       00 - 7F
00 - 7F
                                                                                                                                                                                  00 - 7F
00 - 7F
                                                                                                                      00,02,
                   C
                   D
                                                                                                                                       00 - 7F
00 - 7F
                                                                                                                                                                3F,04,
3F,05,
                            000 - 127
                                                                                                                      00,04,
                                                                                                                                                                                  00 - 7F
                   \mathbf{E}
                   F
                            000 - 127
                                                                                                                      00,05,
                                                                                                                                                                                  00 - 7F
           G 001 - 128
g(1)-(9) 001 - 128
g(d) 001 - 128
                                                                                                                      79,00, 00 - 7F
79,01-09,00 - 7F
                                                                                                                                                               79,00, 00 - 7F
79,01-09,00 - 7F
                                                                                                                                                                                  00 - 7F
                                                                                                                                      00 - 7F
                                                                                                                      78,00,
                                                                                                                                                                78,00,
                                                                                                                                                                                 00 - 7F
```

S

P: Enabled when Enable Program Change in Global mode is checked

PB: Enabled when Enable Program and Bank Change in Global mode is checked T: Enabled when Enable After Touch in Global mode is checked

 $^{{\}tt Q}$: Enabled when Sequencer is playing(transmit), recording(receive)

[H] :Hex, [D] :Decimal

```
*3 : ARPEGGIATOR ON/OFF
  ARPEGGIATOR VELOCITY Knob : [ Bn,63,00,Bn,62,0B,Bn,06,mm] mm = 00-7F
```

When in Program/Combination mode, Global channel.

When in Sequencer/Song Play mode, current selected track's channel.

1-2 SYSTEM COMMON MESSAGES

+	_+				
	Second [H] [D]		D]	Description (Transmitted when)	İ
F2	ss (ss)	tt (1	tt)	Song Position Pointer ss : Least significant [LSB] tt : Most significant [MSB]	*4
F3	ss (ss)			Song Select (Song or Cue List is selected) ss: Song(0-127)/Cue List(0-19) No.	-

Transmits Song Position Pointer message when in Sequencer and Song Play mode (Internal Clock)

Transmits Song Select message when in Sequencer mode (Internal Clock)
*4: For example, if time signature is 4/4 or 8/8, tt,ss = 00,10 means one measure.

1-3 SYSTEM REALTIME MESSAGES

Status[Hex]	Descriptio	on (Transmitted when)
F8 FA FB FC FE	Start (Continue ((Always in Prog/Combi/Seq/Song Play mode) (START in Seq/Song Play mode) (Continue START in Seq/Song Play mode) (STOP in Seq/Song Play mode) (Always)

Transmits these message when MIDI Clock in Global mode is Internal.

1-4 SYSTEM EXCLUSIVE

```
1-4-1 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE ( NON REALTIME )
        DEVICE INQUIRY REPLY ( Transmits when received a INQUIRY MESSAGE REQUEST )
                                                            3rd byte g: Global Channel
6th byte 42: KORG ID
        [ F0,7E,0g,06,02,42,50,00,mm,00,nn,00,vv,00,F7 ]
                                                             7th byte 50 : TRITON series ID
                                                             9th byte mm : TRITON mm = 05
TRITON pro mm = 0E
                                                                           TRITON prox mm = 17
                                                            11th byte nn : System No.
                                                                                        ( 01 -
                                                            13th byte vv : System Version ( 01 -
1-4-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGES ( REALTIME )
        Master Volume
        [ F0,7F,0g,04,01,vv,mm,F7 ]
                                                            3rd byte
                                                                      g : Global Channel
                                                            6th byte vv : Value(LSB)
                                                            7th byte mm : Value(MSB)
                                                                      mm, vv = 00,00 - 7F,7F : Min - Max
```

2.RECOGNIZED RECEIVE DATA

2-1 CHANNEL MESSAGES

[H] :Hex, [D] :Decimal ____+___ . [D] | Status | Second | Third | Third | Status | Third | Status | Third | Status Description (Use) Third ENIZ _______ 8n kk (kk) (xx) Note Off 9n kk (kk) 0.0 (00)Note Off Α 9n kk (kk) VV (vv) Note On (vv)=1-127Α Poly Key Pressure (as AMS) Bank Select(MSB) (for Prog/Combi change) vv An kk (kk) (vv) T,Q *1 Bn 00 (00) mm (mm) P Modulation1 (as Joy Stick +Y) (as Joy Stick -Y) (as AMS & FX Dmod Src =Pedal) 01 (01) C Bn 7777 (vv) 000000 Bn 02 (02) 7777 (vv) Modulation2 04 (04) 05 (05) Foot Pedal Portamento Time Bn vv (vv) Bn vv (vv) (for RPC edit) 06 (06) Bn 7777 (vvv) Data Entry (MSB) 07 (07)Bn 7777 (vvv) Volume 08 (08) Balance Control (for Post IFX Panpot control) *2 Bn 7777 (vvv) C C 0A (10) Bn VV (vv) Panpot 0B (11) Expression Bn VV (vv) CCC 0C (12) Effect Control 1 Effect Control 2 (as FX Dmod Src) (vv) Bn VV 0D (13) (as FX Dmod Src) Bn (vvv) 7777 Multi Purpose Ctrl1 (as Ribbon Controller) C 10 (16) Bn VV (vv) Multi Purpose Ctrl2 (as AMS & FX Dmod Src = KnobMod1) C Bn 11 (17) (vv) VV 12 (18) Multi Purpose Ctrl3 (as Value Slider) C Bn VV (vv) Multi Purpose Ctrl4 (as AMS & FX Dmod Src = KnobMod2) (as AMS & FX Dmod Src = KnobMod3) 13 (19) C Bn vv (vv) 14 (20) vv (vv) Bn

```
( as AMS & FX Dmod Src = KnobMod4 )
Bn
           (21)
                                 (bb)
                                               Bank Select(LSB)
                                                                          ( for Prog / Combi change )
Bn
        20
           (32)
                      bb
                                                                         ( for RPC edit )
Bn
        26
           (38)
                      vv
                                 (vv)
                                               Data Entry (LSB)
                                                                                                                          С
Bn
        40
            (64)
                                 (vv)
                                               Hold1
                                                                         ( as Damper)
           (65)
                                               Portamento Off/On
                                                                                                                     *3
                                                                                                                          С
Bn
        41
                      dd
                                 (dd)
                                                                                                                          С
Bn
        42
           (66)
                      dd
                                 (dd)
                                               Sostenuto Off/On
                                                                                                                     *3
                                               Soft Pedal
                                                                                                                          С
        43
           (67)
                                 (vv)
                                               Sound Controller 1 ( for Sustain Level control )
Sound Controller 2 ( for Resonance/HPF Cutoff ctrl)
Sound Controller 3 ( for Release Time control )
Sound Controller 4 ( for Attack Time control )
Sound Controller 5 ( for LPF Cutoff control )
Sound Controller 6 ( for Decay Time control )
Sound Controller 7 ( for LFO1 Speed control )
            (70)
                                                                                                                          С
Bn
        46
                                 (vv)
            (71)
                                                                                                                          С
Bn
        47
                                 (vv)
        48
            (72)
                                                                                                                          С
Bn
                                 (vv)
           (73)
        49
                                                                                                                          С
Bn
                      vv
                                 (vv)
            (74)
                                                                                                                          С
Bn
        4A
                      vv
                                 (vv)
                                               Sound Controller 6
Sound Controller 7
            (75)
                                                                                                                          С
Bn
        4B
                                 (vv)
        4C
            (76)
                                 (vv)
                                                                         ( for LFO1 Speed control )
                                                                                                                          С
Bn
                      vv
                                               Sound Controller 8 (for LFO1 Pitch Depth control)
Sound Controller 9 (for LFO1 Delay control)
Bn
        4D
           (77)
                                 (vv)
                                                                                                                          С
                      vv
Bn
        4E
            (78)
                      vv
                                 (vv)
                                                                            for LFO1 Delay control )
                                                                                                                          C
           (79)
                                               Sound Controller 10 ( for Filter EG Intencity ctrl )
                                                                                                                          C
C
Bn
        4 F
                                 (vv)
                      VV
Bn
        50
           (80)
                      W
                                 ( 7777 )
                                               Multi Purpose Ctrl5 ( as AMS & FX Dmod Src =SW 1 )
           (81)
Bn
        51
                      vv
                                 (vv)
                                               Multi Purpose Ctrl6 ( as AMS & FX Dmod Src =SW 2 )
                                                                                                                          С
                                                                                                                          C
C
Bn
        52
           (82)
                      vv
                                 (vv)
                                               Multi Purpose Ctrl7
                                                                         ( as AMS & FX Dmod Src =Foot SW )
                                               Multi Purpose Ctrl8 (
Bn
        53
           (83)
                      vv
                                 (vv)
                                                                            as AMS & FX Dmod Src )
Bn
        5B
           (91)
                      7777
                                 (vv)
                                               Effect 1 Depth
                                                                         ( for Send 2 Level control )
                                                                                                                          C
                                               Effect 2 Depth
           (92)
                                                                         ( for All Insert FX Off/On )
Вg
        5C
                      ee
                                 (ee)
                                               Effect 3 Depth
Bn
        5D
           (93)
                      7777
                                 (vv)
                                                                         ( for Send 1 Level control )
                                               Effect 4 Depth
Effect 5 Depth
                                                                         ( for Master FX1 Off/On )
                                                                                                                          C C
Вg
        5E (94)
                      ee
                                 (ee)
                                                                                                                     *4
Вg
        5 F
           (95)
                      ee
                                 (ee)
                                                                         ( for Master FX2 Off/On )
                                                                         ( for RPC edit )
( for RPC edit )
        60 (96)
Bn
                      0.0
                                 (00)
                                               Data Increment
        61 (97)
                                                                                                                          C C C
Bn
                      0.0
                                 (00)
                                               Data Decrement
                                               NRPN Param No.(LSB) ( for NRPN select )
Rn
        62 (98)
                      SS
                                 (ss)
                                                                                                                     *5
        63 (99)
                                               NRPN Param No.(MSB) ( for NRPN select )
Bn
                      ++
                                 (tt)
                                               RPN Param No. (LSB) ( for RPN select )
RPN Param No. (MSB) ( for RPN select )
                                                                                                                     *6
        64(100)
Bn
                      0r
                                 (0r)
                                                                                                                     *6
                      0.0
                                                                                                                          C
Bn
        65(101)
                                 (00)
                                                                         ( for Seq. recording (cc)=0-101 )
Bn
        cc (cc) 78(120)
                      vv
                                 (vv)
                                               Control data
                                                                                                                          C,0
                      0.0
                                 (00)
                                               All Sound Off
Bn
                                                                                                                          C
                                               Reset All Controllers
Local Control Off/On
        79(121)
                      0.0
                                 (00)
                                                                                                                          C
Bn
                    00/7F
                              (00/127)
        79(121)
Bn
                                                                                                                          Α
        7B(123)
                      00
                                 (00)
                                               All Notes Off
Bn
                                                                                                                          Α
                                               Omni Mode Off
                                                                         ( as All Notes Off )
        7C(124)
                      0.0
                                 (00)
Bn
                                                                                                                          Α
                                               Omni Mode On
        7D(125)
                      0.0
                                 (00)
                                                                         ( as All Notes Off )
Bn
                                                                                                                          Α
        7E(126)
                    00 - 10 (00 - 16)
                                                                         ( as All Notes Off
                                               Mono Mode On
Bn
                                                                                                                          Α
        7F(127)
                     00
                                 (00)
                                               Poly mode On
                                                                         ( as All Notes Off )
Bn
                                                                                                                          Α
Cn
                                               Program Change
                                                                         ( for Prog/Combi change )
                                                                                                                          Ρ
       pp (pp)
                      --
                                 --
                                               Channel Pressure
                                                                      ( as After Touch )
Dn
        vv (vv)
                                              Bender Change
       bb (bb)
                                 (bb)
En
```

: Alternate Modulation Source AMS FX Dmod Src: Effect Dynamic Modulation Source

```
: MIDI Channel No. (0 - 15) ..... Usually Global Channel.
```

When in Combination/Sequencer/Song Play mode, each timbre's/track's channel.(Status is INT or BTH)

: Always Global Channel No. (0 - 15)

```
: Random
ENA : Same as Transmitted data
   : When Bank Map in Global mode is KORG;
       MIDI In [Hex]
                                           Program
                                                                      Combination
       mm, bb, pp = 00,00,
                              00 - 7F : Bank A
                                                       000 - 127 : Bank A 000 - 127
                               00 - 7F :
                                                       000 - 127 :
                    00,01,
                                                 В
                                                                       в 000 - 127
                    00,02,
                               00 - 7F :
                                                 С
                                                       000 - 127 :
                                                                           C 000 - 127
                                                                           D 000 - 127
                    00,03,
                               00 - 7F :
                                                 D
                                                       000 - 127 :
                    00,04, 00 - 7F : E 000 - 127

00,05, 00 - 7F : F 000 - 127

79,00, 00 - 7F : G 001 - 128

79,01-09,00 - 7F : g(1)-g(9) 001 - 128
                               00 - 7F :
                                                 g(d) 001 - 128
                    78,00,
                                                G 001 - 128
g(d) 001 - 128
                    38,00,
                              00 - 7F :
00 - 7F :
                    3E,00,
       When Bank Map in Global mode is GM(2);
       MIDI In [Hex]
                                          Program
                                                                      Combination
                               00 - 7F : Bank A
       mm,bb,pp = 3F,00,
                                                       000 - 127 : Bank A 000 - 127
                               00 - 7F :
00 - 7F :
                                                       000 - 127 :
                                                                      В 000 - 127
                    3F,01,
                                                В
                                                 С
                                                       000 - 127 :
                                                                           C 000 - 127
                    3F,02,
                               00 - 7F :
00 - 7F :
                    3F,03,
3F,04,
                                                       000 - 127 :
                                                                           D 000 - 127
                                                 D
                                                       000 - 127
                                                 E
                               00 - 7F :
00 - 7F :
                                                       000 - 127
                    3F,05,
                                                 F
                    79,00,
                                                       001 - 128
                                                G
                    79,01-09,00 - 7F: g(1)-g(9) 001 - 128
78,00, 00 - 7F: g(d) 001 - 128
                                                g(d) 001 - 128
                               00 - 7F :
                    00,00,
                                                      001 - 128
                                                G
                                               G 001 - 128
g(d) 001 - 128
                    38,00,
                               00 - 7F:
                                               G
                               00 - 7F :
                    3E,00,
              3F,7F,
(XG) 00,01 -
                               00 - 7F :
                                                Mute (KORG MUTE)
                                               Assign correspond program in G, g(1) - g(9)
              (GS) 01,00 -
                                                Assign correspond program in G, g(1) - g(9)
```

*2 : When in Program/Sampling mode, Global channel When in Combination/Sequencer/Song Play mode, each IFX's channel.

```
*3 : dd = 00 - 3F : Off
           40 - 7F : On
*4 : ee = 00 : Off
01 - 7F : On
*5 : tt,ss = 00,02 : Arpeggiator Off/On
             = 00,0A : Arpeggiator Gate control
= 00,0B : Arpeggiator Velocity control
      When in Program/Combination mode, Global channel message is valid.
     When in Sequencer/Song Play mode, current selected track's channel message is valid. Data Entry LSB value has no effect.
      tt,ss = 01,08 : Vibrato Rate
     tt,ss = 01,09 : Vibrato Depth
tt,ss = 01,0A : Vibrato Delay
      tt,ss = 01,20 : Filter Cutoff
      tt,ss = 01,21 : Filter Resonance
     tt,ss = 01,63 : EG Attack Time
tt,ss = 01,64 : EG Decay Time
     tt,ss = 01,66 : EG Release Time
tt,ss = 14,kk : Drum Filter Cutoff
     tt,ss = 15,kk : Drum Filter Resonance *
tt,ss = 16,kk : Drum EG Attack Time *
tt,ss = 17,kk : Drum EG Decay Time *
tt,ss = 18,kk : Drum Coarse Tune *
     tt,ss = 19,kk : Drum Fine Tune
tt,ss = 1A,kk : Drum Volume
tt,ss = 1C,kk : Drum Panpot
     tt,ss = 1D,kk : Drum Rev Send(Send2)
tt,ss = 1E,kk : Drum Cho Send(Send1)
     * Only valid when Part Mode is Drum, MDrm1 - Mdrm4. kk: Drum Inst No. (0C - 6C = C0 - C8)
      Data Entry LSB value has no effect.
*6 : r = 0 : Pitch Bend Sensitivity ( Bend Range ).
       = 1 : Fine Tune (Detune) = 2 : Coarse Tune (Transpos
                                             ( Transpose )
      For drum program, both of Fine Tune and Coase Tune affect to Detune.
      Data Entry LSB value has no effect.
2-2 SYSTEM COMMON MESSAGES
                                                                                       [H] :Hex, [D] :Decimal
     ----+----
   Status Second Third [Hex] [H] [D]
                                                    Description ( Use for ..... )
            ss (ss) tt (tt) Song Position Pointer (Location)
                                                ss: Least significant [LSB]
tt: Most significant [MSB]
Song Select (Song or Cue List select) *7
ss: Song(0-127)/Cue List(0-19) No.
           ss (ss)
   Receive when in Sequencer mode (External Clock)
*7 : When in the Cue List page (Sequencer mode P1), respond to Location and No. of Cue List.
2-3 SYSTEM REALTIME MESSAGES
                                   ______
  | Status[Hex] | Description ( Use for.... )
     F8 Timing Clock ( Tempo, AMS. & FX Dmod Src )
FA Start ( Seq Start & Arpeggiator Control )
FB Continue ( Seq Continue start & Arpeggiator Control )
FC Stop ( Seq Stop & Arpeggiator Control )
FE Active Sensing ( MIDI Connect check )
   .______
   Receive when MIDI Clock in Global mode is External MIDI or External PCI/F.
2-4 SYSTEM EXCLUSIVE
2-4-1 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE ( NON REALTIME )
         DEVICE INQUIRY ( When received this message, transmits INQUIRY MESSAGE REPLY )
                                               3rd byte nn : Channel = 0 - F : Global Channel
= 7F : Any Channel
         [ F0,7E,nn,06,01,F7 ]
         GM System On ( Receive when in Song Play mode )
                                                              3rd byte nn : Channel = 0 - F : Global Channel = 7F : Any Channel
         [ F0,7E,nn,09,01,F7 ]
2-4-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGES ( REALTIME )
         Master Volume
         [ F0,7F,0g,04,01,vv,mm,F7 ]
                                                               3rd byte g : Global Char
6th byte vv : Value(LSB)
                                                                            g : Global Channel
                                                               7th byte mm : Value(MSB)
                                                                          mm, vv = 00,00 - 7F,7F : Min - Max
         Master Balance
          [ F0,7F,0g,04,02,vv,mm,F7 ]
                                                              3rd byte q : Global Channel
```

```
6th byte vv: Value(LSB)
7th byte mm: Value(MSB)
mm,vv = 00,00:Left, 40,00:Center,
```

7F,7F:Right

mm, vv = 20,00:-50, 40,00:+00, 60,00:+50

R

R

R

Master Coarse Tune (Control Transpose (chromatic step) in Global)
[F0,7F,0g,04,04,vv,mm,F7] 3rd byte g: Global Channel
6th byte vv: Value(LSB)
7th byte mm: Value(MSB)

mm, vv = 34,00:-12, 40,00:+00, 4C,00:+12

3.KORG System Exclusive Message Received Function Code List (5th byte of Exclusive message) List

+	+	
1	Func	Description
Ĭ	12	MODE REQUEST
		CURRENT PROGRAM PARAMETER DUMP REQUEST
	1C	PROGRAM PARAMETER DUMP REQUEST
İ	19	CURRENT COMBINATION PARAMETER DUMP REQUEST
- 1	1D	COMBINATION PARAMETER DUMP REQUEST
	18	SEQUENCE DATA DUMP REQUEST
		GLOBAL DATA DUMP REQUEST
	0D	DRUMKIT DATA DUMP REQUEST
	34	ARPEGGIO PATTERN DATA DUMP REQUEST
ļ		ALL DATA(PROG,COMBI,GLOBAL,DRUMS,ARPPAT,SEQ)DUMP REQUEST
		PROGRAM WRITE REQUEST
	1A	COMBINATION WRITE REQUEST
-	40	CURRENT PROCESS PARAMETER DUMP
	40 4C	CURRENT PROGRAM PARAMETER DUMP PROGRAM PARAMETER DUMP
	49	CURRENT COMBINATION PARAMETER DUMP
ł	49 4D	COMBINATION PARAMETER DUMP
	48	SEQUENCE DATA DUMP
	- 1	GLOBAL DATA DUMP
	1	DRUMKIT DATA DUMP
ı		ARPEGGIO PATTERN DATA DUMP
	50	ALL DATA(PROG, COMBI, GLOBAL, DRUMS, ARPPAT, SEO)DUMP
		, , , , , , , , , , , , , , , , , , ,
İ	4E	MODE CHANGE
	41	PARAMETER CHANGE
İ	53	DRUMKIT PARAMETER CHANGE
- 1	6D	ARPEGGIO PATTERN PARAMETER CHANGE

```
(1) MODE REQUEST
F0, 42, 3g, 50
Excl Header
12
Function
F7
End of Excl
```

(Receives this message, and transmits Func=42 message)

```
(2) CURRENT PROGRAM PARAMETER DUMP REQUEST
F0, 42, 3b, 50 Excl Header
10 Function
00 Reserved
F7 End of Excl
```

(Receives this message, and transmits Func=40 or Func=24 message)

```
(3) PROGRAM PARAMETER DUMP REQUEST

F0, 42, 3g, 50 Excl Header

1C Function

00kk 0bbb Kind and Bank (*1)

0ppp pppp Program No.
```

00 Reserved F7 End of Excl

(Receives this message, and transmits Func=4C or Func=24 message)

```
(4) CURRENT COMBINATION PARAMETER DUMP REQUEST
F0, 42, 3g, 50 Excl Header
19 Function
00 Reserved
F7 End of Excl
```

(Receives this message, and transmits Func=49 or Func=24 message)

```
(5) COMBINATION PARAMETER DUMP REQUEST
F0, 42, 3g, 50 Excl Header
1D Function
00kk 00bb Kind and Bank (*2)
0ccc ccc Combination No.
00 Reserved
F7 End of Excl
```

(Receives this message, and transmits Func=4D or Func=24 message)

```
(6) SEQUENCE DATA (In Memory) DUMP REQUEST
         F0, 42, 3g, 50
                                     Excl Header
                                     Function
         00
                                     Reserved
         F7
                                     End of Excl
(Receives this message, and transmits Func=48 or Func=24 message)
(7) GLOBAL DATA DUMP REQUEST
                                                                                    R
         F0, 42, 3g, 50
                                     Excl Header
         OΕ
                                     Function
         00
                                     Reserved
         F7
                                     End of Excl
(Receives this message, and transmits Func=51 or Func=24 message)
(8) DRUMKIT DATA (In Memory) DUMP REQUEST
                                                                                    R
         F0, 42, 3g, 50
                             Excl Header
         OΠ
                                     Function
         0000 000k
                                                        (*3-1)
                                     Kind
                                     Drumkit No.
                                                        (*3-1)
         0ddd dddd
         0.0
                                     Reserved
         F7
                                     End of Excl
(Receives this message, and transmits Func=52 or Func=24 message)
(9) ARPEGGIO PATTERN DATA DUMP REQUEST
                                                                                    R
         F0, 42, 3g, 50
                                     Excl Header
                                     Function
         34
         0k00 0000
                                     Kind
                                    ARPPAT No. MSB (*3-2)
ARPPAT No. LSB (*3-2)
End of Excl
         0000 000a
         Oaaa aaaa
         F7
(Receives this message, and transmits Func=52 or Func=24 message)
(10) ALL DATA(PROG, COMBI, GLOBAL, DRUMS, ARPPAT, SEQ) DUMP REQUEST
                                                                                   R
         F0, 42, 3g, 50
                                     Excl Header
         OF
                                     Function
         0.0
                                     Reserved
                                     End of Excl
(Receives this message, and transmits Func=50 or Func=24 message)
(11) PROGRAM WRITE REQUEST
                                     Excl Header
         F0, 42, 3g, 50
         11
                                     Function
         0000 0bbb
                                     Write Program Bank
                                     Write Program No.
         Oppp pppp
                                     End of Excl
(Receives this message, write the data and transmits Func=21 or Func=22 message)
(12) COMBINATION WRITE REQUEST
         F0, 42, 3g, 50
                                     Excl Header
         1A
                                     Function
         0000 0bbb
                                     Write Combination Bank (*4)
         Occc cccc
                                     Write Combination No.
         F7
                                     End of Excl
(Receives this message, write the data and transmits Func=21 or Func=22 message)
(13) CURRENT PROGRAM PARAMETER DUMP
                                                                                   R , T
         F0, 42, 3g, 50
                                    Excl Header
         40
                                     Function
                                     Program Type (t = 0 : PCM, 1 : MOSS)
         0000 000t
                                                                (*5,*6, TABLE1,2)
         0ddd dddd
                                     Data
                                    End of Excl
         F7
(Receives this message & data, and transmits Func=23 or Func=24 message)
Receives Func=10 message, and transmits this message & data.
When Enter the EDIT PROGRAM Page or Edit the PEEERFORMANCE EDIT by SW, transmits this
message & data.
(14) PROGRAM PARAMETER DUMP
                                                                                   R , T
         F0, 42, 3g, 50
                                     Excl Header
         4C
                                     Function
         0000 000v
                                     Available Bank
                                     Kind and Bank
         00kk 0bbb
         Oppp pppp
                                     Program No.
                                                                 (*5.*8. TABLE1.2)
         0ddd dddd
                                     Data
                                    End of Excl
         F7
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=1C message, and transmits this message & data. Transmits this message & data when DATA DUMP is executed.
```

```
Excl Header
         F0, 42, 3g, 50
                                       Function
          00
                                       Reserved
          0ddd dddd
                                                                    (*5,*9, TABLE3)
                                       Data
                                       End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 message)
Receives Func=19 message, and transmits this message & data.
When the Combi No. is changed by SW, transmits this message & data.
(16) COMBINATION PARAMETER DUMP
                                                                                        R , T
         F0, 42, 3g, 50
                                      Excl Header
          4D
                                       Function
          0.0
                                       Reserved
          00kk 00bb
                                       Kind and Bank
                                                                   (*10)
          Oppp pppp
                                       Combination No.
                                                                    (*5,*11, TABLE3)
          0ddd dddd
                                       Data
                                      End of Excl
         F7
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=1C message, and transmits this message & data. Transmits this message & data when DATA DUMP is executed.
(17) SEQUENCE DATA (In Memory) DUMP
                                                                                        R , T
                               Excl Header
         F0, 42, 3g, 50
          48
                                       Function
          0.0
                                       Reserved
                                                                 [4Bytes] (*12-1)
                                       Seq. data Size
          Osss ssss
                                                                               (*5,*12-2, TABLE10)
                                       Song Data Adress
          Ommm mmmm
            :
          Occc cccc
                                       CueLists Data
                                                                               (*5,*12-3, TABLE11)
          0ddd dddd
                                       Sequence Data
                                                                               (*5.*12-4. TABLE12)
                                       End of Excl
          F7
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=18 message, and transmits this message & data. Transmits this message & data when DATA DUMP is executed.
(18) GLOBAL DATA DUMP
                                                                                        R , T
         F0, 42, 3g, 50
                                       Excl Header
         51
                                       Function
          00
                                       Reserved
          0ddd dddd
                                       Data
                                                                   (*5,*13, TABLE4)
                                      End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=0E message, and transmits this message & data.
Transmits this message & data when DATA DUMP is executed.
(19) DRUMKIT DATA DUMP
                                                                                         R , T
         F0, 42, 3g, 50
                                       Excl Header
          52
                                       Function
          0000 000k
                                       Kind
                                                                    (*14-1)
          0ddd dddd
                                       Drumkit No.
                                                                     (*14-1)
                                       Reserved
          00
          0ddd dddd
                                       Data
                                                                     (*5,*15, TABLE7)
                                      End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=0E message, and transmits this message & data.
Transmits this message & data when DATA DUMP is executed.
(20) ARPEGGIO PATTERN DATA DUMP
                                                                                        R , T
         F0, 42, 3g, 50
                                      Excl Header
          69
                                       Function
         0k00 0000
0000 000a
                                       Kind
ARPPAT No. MSB
                                                                     (*14-2)
                                                                     (*14-2)
                                                                     (*14-2)
          Oaaa aaaa
                                       ARPPAT No. LSB
                                                                     (*5,*15, TABLE8)
          0ddd dddd
                                       Data
                                      End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 message)
Receives Func=34 message, and transmits this message & data. Transmits this message & data when DATA DUMP is executed.
(21) ALL DATA (PROG, COMBI, GLOBAL, DRUMS, ARPPAT, SEQ) DUMP
                                                                                        R, T
         F0, 42, 3g, 50
                                       Excl Header
          50
                                       Function
          0000 00vv
                                       Available Bank (*16)
                                       Reserved
          0.0
                                       Seq. data Size [4Bytes](*12-1)
          Osss ssss
          0ddd dddd
                                                                    (*5,*17, TABLE1,2,3,4,7,8,10,11,12)
                                       Data
                                       End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 message) Receives Func=34 message, and transmits this message & data.
```

Transmits this message & data when DATA DUMP is executed.

```
(22) MODE CHANGE
                                                                              R , T
        F0, 42, 3g, 50
                                  Excl Header
        4E
                                  Function
        0000 mmmm
                                                            (*18)
                                  Mode
                                  End of Excl
        F7
(Receives this message & data, changes the Mode, and transmits Func=23 or Func=24
When the Mode is changed by SW, transmits this message & data.
(23) PARAMETER CHANGE
                                                                              R , T
        F0, 42, 3g, 50
                                  Excl Header
        41
                                  Function
        0000 mmmm
                                  Mode
                                                            (*18)
        0000 0000
                                  Parameter ID (MSB)
        0ppp pppp
0000 0000
                                  Parameter ID (LSB)
                                                            (TABLE 1,2,3,5,6,9)
                                  Parameter SUB ID (MSB)
Parameter SUB ID (LSB)
        0qqq qqqq
                                                            (TABLE 1,2,3,5,6,9)
                                  Value (MSB bit7-18)
        Ovvv vvvv
                                                            (*19)
                                                            (*19)
        Ovvv vvvv
                                  Value
                                           (LSB bit0-6)
                                  End of Excl
        F7
(Receives this message & data, and transmits Func=23 or Func=24 messages)
When the Parameter No. is changed by SW, transmits this message & data.
(24) DRUMKIT PARAMETER CHANGE
                                                                              {\tt R} , {\tt T}
        F0, 42, 3g, 50
                                  Excl Header
                                  Function
        53
                                                kk = 00-3F ( : 00-63)
        Okkk kkkk
                                  Drumkit No.
                                                   ss = 00-7F ( : C-1-G9)
                                  Index No. ss = 00
Parameter No. (MSB)
Parameter No. (LSB)
        Osss ssss
                                                            (TABLE 7)
        0ppp pppp
0000 0000
                                                            (TABLE 7)
                                  Value (MSB bit7~18)
Value (LSB bit0~6)
        Ovvv vvvv
                                                            (*19)
                                                            (*19)
        Ovvv vvvv
        F7
                                  End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 messages)
(25) ARPEGGIO PATTERN PARAMETER CHANGE
        F0, 42, 3g, 50
                                  Excl Header
        6D
                                  Function
        0000 000b
                                  Arppegio AorB b = 0 : Arppegio A 1 : Arppegio B
        0000 000a
                                  Pattern No. MSB (bit 7)
                                  Pattern No. LSB (bit 6-0) a = 00-E7 ( : 00-231)
        Oaaa aaaa
                                  Step No. ss = 00-2F (: 00-47)
        Osss ssss
                                  Tone No.
                                                    tt = 00-0B \ (: 00-11)
        Ottt tttt
        0ppp pppp
0000 0000
                                  Parameter No. (MSB)
Parameter No. (LSB)
                                                            (TABLE 8)
                                                            (TABLE 8)
                                  Value (MSB bit7~18)
Value (LSB bit0~6)
        0vvv vvvv
        0vvv vvvv
                                  End of Excl
        F7
(Receives this message & data, and transmits Func=23 or Func=24 messages)
(26) MODE DATA
        F0, 42, 3g, 50
                                  Excl Header
        42
                                  Function
        0000 mmmm
                                                            (*18)
                                  Mode
        0000 0000
                                  Option
                                                             (*20)
        Osss ssss
                                  Setuped data1
                                                             (*20)
        0ddd dddd
                                  Setuped data2
                                                            (*20)
        00
                                  {\tt Reserved}
        F7
                                  End of Excl
(Receives FUNC=12 message, and transmits this message & data.)
(27) MIDI IN DATA FORMAT ERROR
                                                                              т
        F0, 42, 3g, 50
                                  Excl Header
                                  MIDI IN DATA FORMAT ERROR
        26
                                                            (*21)
        Occc cccc
                                  Error Code
                                  End of Excl
        F7
(Transmits this message when there is an error in the MIDI IN message (ex.data length).)
(28) DATA LOAD COMPLETED (ACK)
                                                                              Т
        F0, 42, 3g, 50
                                  Excl Header
                                  DATA LOAD COMPLETED
        23
                                  End of Excl
        F7
(Transmits this message when DATA LOAD, PROCESSING have been completed.)
(29) DATA LOAD ERROR (NAC)
                                                                              Т
        F0, 42, 3g, 50
                                  Excl Header
        2.4
                                  DATA LOAD ERROR
                                  Error Code
        Occc cccc
                                                            (*22)
                                  End of Excl
(Transmits this message when DATA LOAD, PROCESSING have not been completed (ex. protected).)
```

```
(30) WRITE COMPLETED
        F0, 42, 3g, 50
                                  Excl Header
        21
                                  WRITE COMPLETED
        F7
                                  End of Excl
(Transmits this message when DATA WRITE MIDI have been completed.)
(31) WRITE ERROR
        F0, 42, 3g, 50
                                  Excl Header
        22
                                  WRITE ERROR
        Occc cccc
                                  Error Code
                                                            (*23)
                                  End of Excl
(Transmits this message when DATA WRITE MIDI have not been completed.)
////// * The each bank's value is same as value of the internal bank *1
        k = 0 : All Programs
             1 : 1 Bank Programs (Use b)
             2 : 1 Program
                               (Use b & pp)
        b = 0-4: Bank A-E
               5 : Bank F
*2
        k = 0 : All Combinations
    1 : 1 Bank Combinations
    2 : 1 Combination
                                         (Use b)
                                           (Use b & cc)
        b = 0-3: Bank A-D
*3
   3-1
        k = 0 : All Drumkits
            1: 1 Drumkit
                                           (Use d)
        d = 0-3F: Drumkit 0-63
        k = 0 : All Arpeggio Patterns
            1: 1 Arpeggio Pattern
                                          (Use p)
        a = 0-E7: Arpeggio Pattern 0-231
*4 PROGRAM, COMBINATION BANK
        b = 0-3: Bank A-D

4-5: Bank E-F
                                  (Only for Program)
*5 DUMP DATA CONVERT
        Convert 8 to 7
        Convert 7 to 8
*6 PROGRAM PARAMETER (IN CURRENT BUFFER) DUMP FORMAT
        *PCM
        *MOSS
*7
        v = 0 : Bank A-E
            1 : Bank A-F
        k = 0 : All Bank Program
                                           (Use v)
             1: 1 Bank Program
                                           (Use v & b)
             2 : 1 Program
                                           (Use b & pp)
        b = 0-5: Bank A-F
*8 PROGRAM PARAMETER (IN INTERNAL MEMORY) DUMP FORMAT
*9 COMBINATION PARAMETER (IN CURRENT BUFFER) DUMP FORMAT
*10
        k = 0: All Bank Combination
                                           (Use v)
             1 : 1 Bank Combination
                                           (Use b)
             2 : 1 Combination
                                           (Use b & cc)
        b = 0-3: Bank A-D
*11 COMBINATION PARAMETER (IN INTERNAL MEMORY) DUMP FORMAT
*12 SEQUENCE DATA'S OFFSET, SIZE, ADDRESS FORMAT
        12-1 : Sequence Data Size (4Bytes)
    'Seq Data Size' is a all song data's length. A unit is Byte.
    [Data Size (bit21~27)],
                 [Data Size (bit14~20)],
[Data Size (bit 7~13)],
                 [Data SIze (bit 0~ 6)]
        12-2 : Song Data Adress
        12-3 : CueLists Data
```

```
12-4 : Sequence Data
```

```
*13 GLOBAL DATA (IN INTERNAL MEMORY) DUMP FORMAT
*14 ARPEGGIO PATTERN DATA (IN INTERNAL MEMORY) DUMP FORMAT
     14-1
         k = 0 : All Drumkits
              1 : 1 Drumkit
                                               (Use d)
         d = 0-3F : Drumkit 0-63
         k = 0: All Arpeggio Patterns
             1 : 1 Arpeggio Pattern
                                               (Use a)
         a = 0-E7 : Arpeggio Pattern 0-231
*15 DRUMS DATA (IN INTERNAL MEMORY) DUMP FORMAT
*16
                  Program
         v = 0 : Bank A-E
             1 : Bank A-F
*17 All DATA (PROG, COMBI, GLOBAL, DRUMS, ARPPAT, SEQ) DUMP FORMAT
         [Global Data],
          [Drums Data],
         [Arpeggio Pattern DATA],
[All Combination Parameter Data],
         [All Program Parameter Data],
         [Song Data Adress], [CueLists Data],
         [Sequence Data]
*18
         mmm = 0 : COMBI PLAY
1 : COMBI EDIT
                 2 : PROG PLAY
                 3 : PROG EDIT
                 4 : SEQUENCER
                  : SONGPLAY
                  : SANPLING
                  : GLOBAL
                 8 : DISK
*19 VALUE DATA FORMAT (Use at PARAMETER CHANGE, DRUM KIT PARAMETER CHANGE)
*20
         oo : bit 0 = 0 : No MOSS Synthesizer,
                                                                   = 1 : MOSS Synthesizer is loaded
         ss : bit 0,1 = 0 : Note Receive is EVEN, = 1 : ODD, = 2 : ALL bit 3,4 = 0 : Seq Clock is internal, = 1 : External = 2 : External
PC-I/F
                        = 0 : Prog Mem is not protected, = 1 : protected
= 0 : Combi Mem is not protected, = 1 : protected
         dd : bit 0
               bit 2 = 0 : Seq Mem is not protected, = 1 : protected bit 3 = 0 : Drums Mem is not protected, = 1 : protected bit 4 = 0 : ArpPat Mem is not protected, = 1 : ptotected
                                                                    = 1 : protected
*21
         cc = 0 : Received Data Length is wrong
                 1 : Received Function code is not registered
               40 : Another type error
*22
         cc = 0 : Dest Memory is protected
                 1 : Dest Bank/Prog/Param is not exist
                 2 : The mode is wrong
                 3 : Memory over flow
               40 : Another type error
*23
         CC =
                 0 : Dest Memory is protected
                1 : Dest Bank/Prog is not exist
2 : The mode is wrong
40 : Another type error
 [ TABLE 1 ]
                           PROGRAM PARAMETERS (for PCM Synth)
                                                                                                               1999.05.11
```

No.: No. in the PROGRAM DUMP DATA.

PARA No.: Parameter ID & SUB ID [Hex] for PARAMETER CHANGE.

Left side of ',' is Parameter ID, and right side is SUB ID.

	+			+
No.	(bit)	PARAMETER	DATA(Hex): VALUE DESCRIPTION	PARA No
00		PROGRAM NAME (Head)	20~~7F	
15	 +	PROGRAM NAME (Tail)		<u>+</u>
	INSERT	EFFECT PARAMETERS		+
16 :	j	FX1~~5 (24Bytes * 5)		1E,00
135		(120 Bytes)		23,??
	MASTER	EFFECT PARAMETERS		· +
136 :	į	FX1~~2 (20Bytes * 2)		24,00
: 191		Return, Chain & Maste (56 Bytes)	er EQ (16 Bytes)	27,??
	¦ ARPEGGI	TATOR PARAMETERS		+
 192	+	TEMPO		+ 1C,00
 193	ن ا	SWITCH	0:OFF, 1:ON	1C,01
 194	 	PATTERN NO.	00~~EC: 0~~237	1D,00
	¦ b0~~1	OCTAVE	00~~03 : 0~~4	1D,02
195	b2~~4	RESOLUTION	0:16T, 1:16, 2:8T, 3:8, 4:4T, 5:4	+
 196	 + 	GATE	00~~64 : 0~~100[%], 65:Step	+
 197	 	VELOCITY	01~~7F : 1~~127, 80:Key, 81:Step	+ 1D,04
 198	ا + ا	SWING	9C~~64 : -100~~100	+
	 bit0	SORT	0:OFF, 1:ON	+ 1D,06
	bit1	LATCH	0:OFF, 1:ON	+ 1D,07
199		KEY SYNC.	0:OFF, 1:ON	+
	bit2 bit3	KEYBOARD		÷
 200	+	TOP KEY	0:OFF, 1:ON 	1D,09 +
200 201	ا +ا ا		·	1D,0A +
	 +	BOTTOM KEY	00~~7F : C-1~~G9 	1D,0B +
202	 ++ 	TOP VELOCITY		1D,0C +
203 	 +	BOTTOM VELOCITY	01~~7F : 1~~127	1D,0D +
	+	PARAMETERS	;::	+
	b0~~1 +	OSCILLATOR MODE	0:Single, 1:Double, 2:Drums	00,01
	bit2 	KEY ASSIGN	0:Poly, 1:Mono 	00,02 +
204		LEGATO	0:OFF, 1:ON 	00,03 +
	b4~~5 	PRIORITY	0:Low, 1:High, 2:Last 	00,04 +
	bit6 	SINGLE TRIGGER	0:OFF, 1:ON	00,05 +
	bit7	HOLD	0:OFF, 1:ON	00,06 +
205		BUS SELECT	00:L/R,01~~05:IFX1~~5,06~~09:1~~4,0A:1/2,0B:3/4,0C:0ff	+
	bit7	USE DKIT SETTING	0:OFF, 1:ON	00,08 +
206 	 +	CATEGORY	00~~0F : 0~~15	00,00
207 	 +	SCALE TYPE	00~~1A: **1-1	00,09
208 	+	SCALE KEY	00~~0C : C~~B	00,0A
209 	 +	RANDOM INTENSITY	00~~07 : 0~~7	00,0B
	b0~~5	SW 1 ASSIGN TYPE	00~~0C: **1-2	00,0c
210	bit6	SW1 TOGGLE/MOMENTARY	0:Toggle, 1:Momentary	00,10
	bit7	SW 1 ON/OFF	0:OFF, 1:ON	00,1E
	b0~~5	SW 2 ASSIGN TYPE	00~~0C : **1-2	00,0D

711	hite !	GM2 HOGGE E /MONTENTE DE-		ITON-SERIES MIDI Implementation	Version 1.2 (May.
-	bit6	SW2 TOGGLE/MOMENTARY	0:Toggle, 1:Momentary		00,11
	bit7	SW 2 ON/OFF	0:OFF, 1:ON		00,0F ++
212 -	b0~~6	KNOB 1 ASSIGN TYPE	00~~7C: **1-3		00,12
	bit7	REALTIME CONTROLS	0:A, 1:B		00,16
213		KNOB 2 ASSIGN	00~~7C : **1-3		00,13
214		KNOB 3 ASSIGN	00~~7C : **1-3		00,14
215	į	KNOB 4 ASSIGN	00~~7C : **1-3		00,15
P	ITCH E	:G			
216		START LEVEL	9D~~63 : -99~~99		01,00
 217		ATTACK TIME	00~~63 : 00~~99		01,01
218	+	ATTACK LEVEL	9D~~63 : -99~~99		01,02
 219	+	DECAY TIME	00~~63 : 00~~99		01,03
 220	÷	RELEASE TIME	00~~63 : 00~~99		01,04
 221	-	RELEASE LEVEL	9D~~63 : -99~~99		01,05
222	+	A.M.SOURCE (LEVEL1)	00~~2A: **1-4	Alternate Modulation	01,08
 123		A.M.SOURCE (LEVELI) 	9D~~63: -99~~99	TITUTIALE MODULACION	
	 +			Altomoto W-Jul-4	01,09
224	· <u></u>	A.M.SOURCE (LEVEL2)	00~~2A : **1-4	Alternate Modulation	01,0A
225 	·+	INT BY A.M.(LEVEL2)	9D~~63 : -99~~99		01,0B
226 	+	A.M.SOURCE (TIME)	00~~2A : **1-4	Alternate Modulation	01,06
227	+	INT BY A.M.(TIME)	9D~~63 : -99~~99		01,07
	b0~~1	START (A.M.LEVEL1)	FF:-, 0:OFF, 1:+		01,0E
228 -	b2~~3	ATTACK (A.M.LEVEL1)	FF:-, 0:OFF, 1:+		01,0F
	b4~~5	START (A.M.LEVEL2)	FF:-, 0:OFF, 1:+		01,10
_	b6~~7	ATTACK (A.M.LEVEL2)	FF:-, 0:OFF, 1:+		01,11
	b0~~1	ATTACK (A.M.TIME)	FF:-, 0:OFF, 1:+		01,0C
229 -	b2~~3	DECAY (A.M.TIME)	FF:-, 0:OFF, 1:+		01,0D
	SCILLA	.TOR 1	+		+
	+ bit7	HI START OFFSET	0:OFF, 1:ON		02,02
-	bit6	HI REVERSE	0:OFF, 1:ON		02,03
-	b0~~6	HI SAMPLE NO.(MSB)			02703 +
	+		00~~03E7 : 00~~999		02,01
231 	+	HI SAMPLE NO.(LSB)			 +
232 	· <u></u>	HI BANK	0:ROM, 1:RAM, ~~???	??? is depend on PCM option.	02,00
233 	+	HI LEVEL	00~~7F : 00~~127		02,04
_	bit7	LOW START OFFSET	0:OFF, 1:ON		02,07
234 -	bit6	LOW REVERSE	0:OFF, 1:ON		02,08
	b0~~6	LOW SAMPLE NO.(MSB)	00~~03E7 : 00~~999		02,06
235	į	LOW SAMPLE NO.(LSB)			
236 		LOW BANK	0:ROM, 1:RAM, ~~???	??? is depend on PCM option.	02,05
237	+	LOW LEVEL	00~~7F : 00~~127		02,09
238	+	DELAY START	00~~60,61 : **1-5		02,0A
 239	+	VEL M.SAMPLE SW	01~~7F : 01~~127	(For Vel Split)	02,0B
 240	+ 	VEL ZONE BOTTOM	01~~7F : 01~~127		02,0C
 241	·‡	VEL ZONE TOP	01~~7F : 01~~127		02,0D
	SCII.I.A	TOR 1 LFO 1	+		· · · · · · · · · · · · · · · · · · ·
	b0~~4	WAVEFORM	0~~14 : **1-6		03,00
42 -		MAVET OKN			03,00

			KOKO IF	RITON-SERIES MIDI Implementation	version 1.2 (Mag
243		FREQUENCY	00~~63 : 00~~99		03,02
244		OFFSET	9D~~63 : -99~~99		03,03
245		+ DELAY	00~~63 : 00~~99		03,04
246		FADE	00~~63 : 00~~99		03,05
	bit7	MIDI/TEMPO SYNC.	0:OFF, 1:ON		+
247	b6~~4	SYNC BASE NOTE	0:16,1:8T,2:8,3:4T,4:4,	5:2T,6:2,7:1	+
	bit7	 TIMES	00~~0F : 00~~16		+
248			00~~2A : **1-4	Alternate Modulation	03,06
249		INT BY A.M.(TIME1)	9D~~63 : -99~~99	•	03,07
250			00~~2A : **1-4	Alternate Modulation	03,08
251		INT BY A.M.(TIME2)	9D~~63 : -99~~99	•	03,09
	OSCILI	LATOR 1 LFO 2	+		+
252		·			04,00
: 261		Same as OSCILLATOR 1 (10 Bytes)	LFO 1 (242~~251)		04,0C
	OSCILI	LATOR 1 PITCH			+
262		OCTAVE	FE~~01 : 32~~4 [']		05,00
263		TRANSPOSE	F4~~0C: -12~~12		05,01
264		TUNE (MSB)	FB50~~04B0 : -1200~~1200		+
265		+ TUNE (LSB)	- [Cent]		05,02
266		A.M.SOURCE (PITCH)	00~~2A : **1-4	Alternate Modulation	05,03
267		INT BY A.M.(PITCH)	8D~~73 : **1-7	-	05,04
 268		PITCH SLOPE	F6~~14 : -1.0~~2.0		05,05
 269		INT BY PITCH EG	8D~~73 : **1-7		+
270		A.M.SOURCE (P.EG)	00~~2A : **1-4	Alternate Modulation	05,07
271		INT BY A.M.(P.EG)	8D~~73 : **1-7	•	05,08
272		INT BY OSC-1 LFO 1	8D~~73 : **1-7		05,09
273		INT BY OSC-1 LFO 2	8D~~73 : **1-7	-	+
	bit0	PORTAMENTO	0:DIS, 1:ENA		+ 05,0B
274	bit1	PORTAMENTO FINGERED	0:OFF, 1:ON		+
275		PORTAMENTO TIME	00~~7F : 00~~127		+
 276		PITCH BY JS(+X)	C4~~0C : -60~~12		+ 05,0E
 277		PITCH BY JS(-X)	C4~~0C : -60~~12		+
 278		PITCH BY RIBBON(X)	F4~~0C : -12~~12		05,10
 279		 (RESERVED)			+
280		LFO1 INT BY JS(+Y)	8D~~73 : **1-7		+ 05,11
281		LFO2 INT BY JS(+Y)	8D~~73 : **1-7		05,12
282		A.M.SOURCE(LFO1INT)	00~~2A : **1-4	Alternate Modulation	05,13
283		INT BY A.M.(LFO1INT)	8D~~73 : **1-7		05,14
284		A.M.SOURCE(LFO2INT)	00~~2A : **1-4	Alternate Modulation	05,15
285		INT BY A.M.(LFO2INT)	8D~~73 : **1-7	-	05,16
	OSCILI	LATOR 1 FILTER			+i
286			0:LPF+RESO, 1:LPF+HPF		06,00
287		TRIM	00~~63 : 00~~99		06,01
288		RESONANCE	00~~63 : 00~~99		06,02
 289		A.M.SOURCE(RESO.)		Alternate Modulation	-

			KORG'	TRITON-SERIES MIDI Implementation	Version 1.2 (May.17.
290 IN	T BY A.M.(RESO.)	9D~~63 :	-99~~99	 	06,04
291 A.	M.SOURCE(EG)	00~~2A:	**1-4	Alternate Modulation	06,05
292 A.	M.SOURCE(LFO1)	00~~2A :	**1-4	Alternate Modulation	06,06
293 A.	M.SOURCE(LFO2)	00~~2A :	**1-4	Alternate Modulation	06,07
OSCILLATOR	R 1 FILTER A				
	REQUENCY	00~~63 :	00~~99		07,00
295 KE	BD TRACK INTENSITY	9D~~63 :	-99~~99	-+ 	07,01
296 A.	M.SOURCE(MOD1)	00~~2A :	**1-4	l Alternate Modulation	07,02
297 IN	T BY A.M.(MOD1)	9D~~63 :	-99~~99	-+ 	07,03
298 A.	.M.SOURCE(MOD2)	00~~2A :	**1-4	-+	07,04
299 IN	T BY A.M.(MOD2)	9D~~63 :	 -99~~99	-+ 	++ 07,05
300 E0	INTENSITY	9D~~63 :	 -99~~99	-+ 	07,06
301 E0		9D~~63 :	 -99~~99	- ;	07,07
	T BY LFO 1	9D~~63 :	 -99~~99	- ¦	07,08
	T BY LFO 2			- 	07,09
	FO 1 BY JS(-Y)		-99~~99 -99~~99	- 	+
	FO 2 BY JS(-Y)		-99~~99 	 	++
			-99~~99 -99~~99	1 71+ own 2+ 2 Model 2+ 2	07,0B +
	T BY A.M.(EG)			Alternate Modulation	07,0C +
	T BY A.M.(LFO1)		-99~~99	Alternate Modulation	07,0D
	T BY A.M.(LFO2)	9D~~63 :	-99~~99 	Alternate Modulation -+	07,0E ++
OSCILLATOF	R 1 FILTER B				+
309 : San	ne as OSCILLATOR 1 I	FILTER B (294~~308)		08,00
323 (15	Bytes)				08,0E ++
OSCILLATOF	R 1 FILTER EG			-+	++
324 ST	TART LEVEL	9D~~63 :	-99~~99 	 -+	09,00
325 A7	TTACK TIME	00~~63:	00~~99		09,01
326 A7	TTACK LEVEL	9D~~63 :	-99~~99 		09,02
327 DE	ECAY TIME	00~~63 :	00~~99	<u> </u>	09,03
328 BF	REAK POINT LEVEL	9D~~63 :	-99~~99		09,04
329 SI	COPE TIME	00~~63 :	00~~99		09,05
:	JSTAIN LEVEL	9D~~63 :	-99~~99		09,06
331 RE	ELEASE TIME	00~~63 :	00~~99	-+ 	09,07
332 RE		9D~~63 :	-99~~99	·+ 	09,08
b7~~b6 RE	+- ELEASE (A.M.TIME1)	FF:-, 0:	OFF, 1:+	·+ 	09,12
b5~~b4 SI	+- LOPE (A.M.TIME1)	FF:-, 0:	OFF, 1:+	-+ 	09,11
333+ b3~~b2 DE		FF:-, 0:	OFF, 1:+	- -	09,10
			OFF, 1:+	- -	+
	ELEASE (A.M.TIME2)		OFF, 1:+	- 	09,16
	LOPE (A.M.TIME2)		OFF, 1:+	- 	09,15
334	ECAY (A.M.TIME2)		OFF, 1:+	 	09,13
				 	++
· -	TTACK (A.M.TIME2)		OFF, 1:+	 	09,13
	REAK (A.M.LEVEL)		OFF, 1:+	 - +	09,19
+	TTACK (A.M.LEVEL)		OFF, 1:+	 - 	09,18
-	TART (A.M.LEVEL)		OFF, 1:+	 	09,17
336 A.	M.SOURCE(TIME1)	00~~2A:	**1-	Alternate Modulation -+	09,09 ++
337 IN	NT BY A.M.(TIME1)	9D~~63 :	-99~~99		09,0A

			KOKO TKITOW-SEKIES WILDT IIIIPICIIICII	tation version 1.2 (way.
+ 338		A.M.SOURCE(TIME2)	00~~2A: **1-4 Alternate Modula	tion 09,0B
+ 339		INT BY A.M.(TIME2)	9D~~63 : -99~~99	++ 09,0C
+ 340			00~~2A: **1-4 Alternate Modula	tion 09,0D
+ 241		INT BY A.M.(LEVEL)	9D~~63 : -99~~99	++ 09,0E
+ 	OSCILI	LATOR 1 FILTER KEYBOARD	TRACK	
+ 342		KEY LOW	00~~7F : C-1~~G9	
+ 343		RAMP LOW	9D~~63 : -99~~99	
+ 344		KEY HIGH	00~~7F : C-1~~G9	
+ 345		RAMP HIGH	9D~~63 : -99~~99	
+ 	OSCILI	LATOR 1 AMPLIFIER		
+ 346		LEVEL	00~~7F : 00~~127	
+ 347		INT BY VELOCITY	9D~~63 : -99~~99	
+ 348		A.M.SOURCE	00~~2A: **1-4 Alternate Modula	tion 0B,02
+ 349		INT BY A.M.	9D~~63 : -99~~99	++ OB,03
+ 350		INT BY LFO 1	9D~~63 : -99~~99	
+ 351		INT BY LFO 2	9D~~63 : -99~~99	0B,05
+ 352		A.M.SOURCE(LFO1)	00~~2A: **1-4 Alternate Modula	tion 0B,06
+ 353		INT BY A.M.(LFO1)	9D~~63 : -99~~99	++ 0B,07
+ 354		+	00~~2A: **1-4 Alternate Modula	tion 0B,08
+ 355		INT BY A.M.(LFO2)	9D~~63 : -99~~99	++ 0B,09
+ 	OSCILI	LATOR 1 AMPLIFIER EG	+	
+ 356		START LEVEL	00~~63 : 00~~99	OC,00
+ 357		ATTACK TIME	00~~63 : 00~~99	0C,01
+ 358		ATTACK LEVEL	00~~63 : 00~~99	0C,02
+ 359		DECAY TIME	00~~63 : 00~~99	OC,03
+ 360		BREAK POINT LEVEL	00~~63 : 00~~99	OC,04
+ 361		SLOPE TIME	00~~63 : 00~~99	0C,05
+ 362		SUSTAIN LEVEL	00~~63 : 00~~99	0C,06
+ 363		 RELEASE TIME	00~~63 : 00~~99	0C,07
+ 364			00~~2A: **1-4 Alternate Modula	tion 0C,08
+ 365		INT BY A.M.(TIME1)	9D~~63 : -99~~99	++ 0C,09
+ 366			00~~2A: **1-4 Alternate Modula	tion OC, OA
+ 367		INT BY A.M.(TIME2)	9D~~63 : -99~~99	OC,0B
+ 368		A.M.SOURCE(LEVEL)	00~~2A: **1-4 Alternate Modula	tion 0C,0C
+ 369		INT BY A.M.(LEVEL)	9D~~63 : -99~~99	++ OC,OD
+ 	b0~~1	ATTACK (A.M.TIME1)	FF:-, 0:OFF, 1:+	OC,0E
	b2~~3	DECAY (A.M.TIME1)	FF:-, 0:OFF, 1:+	0C,0F
370	b4~~5	SLOPE (A.M.TIME1)	FF:-, 0:OFF, 1:+	0C,10
	b6~~7	RELEASE (A.M.TIME1)	FF:-, 0:OFF, 1:+	OC,11
+ 	b0~~1	ATTACK (A.M.TIME2)	FF:-, 0:OFF, 1:+	OC,12
	b2~~3	DECAY (A.M.TIME2)	FF:-, 0:OFF, 1:+	0C,13
371	b4~~5	SLOPE (A.M.TIME2)	FF:-, 0:OFF, 1:+	
	i		FF:-, 0:OFF, 1:+	
	b6~~7	RELEASE (A.M.TIME2)	, , -	00/13
 +	b6~~7 b0~~1	START (A.M.LEVEL)	FF:-, 0:OFF, 1:+	

		KORG TI	RITON-SERIES MIDI Implementation	Version 1.2 (May.17.'00)
	b4~~5 BREAK (A.M.LEVEL)			OC,18
273	(RESERVED)			
ļ	OSCILLATOR 1 AMPLIFIER KEY	BOARD TRACK		
374	KEY LOW	00~~7F : C-1~~G9		0D,00
375	RAMP LOW	9D~~63 : -99~~99	<u> </u>	0D,01
376	+	00~~7F : C-1~~G9	+ 	OD,02
377	+	+ 9D~~63 : -99~~99	+ 	++ 0D,03
	OSCILLATOR 1 OUTPUT	·	+	+
278	(RESERVED)	+ 	+ 	
379	+	+	+	++ OE,00
380	A.M.SOURCE(PAN)	+	+ Alternate Modulation	++ 0E,01
381	INT BY A.M.(PAN)	+ 9D~~63 : -99~~99	* 	++ 0E,02
382	SEND1 (TO MFX1)	+ 00~~7F: 00~~127	+ 	++ 0E,03
383	SEND2 (TO MFX2)	00~~7F: 00~~127	+ 	++ 0E,04
+	OSCILLATOR 2	·	+	+ +
384	+			+
537	Same as OSCILLATOR 1 (154 Bytes)	(230~~383)		: 1B,0E
538	 	+ 	+ 	+
: 539	(RESERVED)			
+	+			++
**1-1	3 : Arabic 6 : Kirnberger	1 : Pure Majo 4 : Pythagora 7 : Slendro	as 5 : Werkmeis 8 : Pelog	
	9 : Stretch B~~1A : User Octave Scale (A : User All	Notes Scale	
**1-2		V 1/2 Mod:CC#80/CC#81 2		Octave Down
	-			JS-Y Lock JS-Y & Ribbon Lock
**1 2	: 0:Off	1:Knob Mod.1:CC#17	2:Knob Mod.2:CC#19 3:Kn	ob Mod.3:CC#20
1-3	4:Knob Mod.4:CC#21 8:Post IFX Pan:CC#08	5:Master Volume	6:Portamento Time:CC#05 7:Vo	lume:CC#07 Control 1:CC#12
	C:FX Control 2:CC#13 10:F/A Attack:CC#73	D:LPFCutoff:CC#74	E:Resonance/HPF:CC#71 F:Fi	lter EG Int.:CC#79 A Release:CC#72
	14:Pitch LFO1 Spd:CC#76	15:Pitch LFO1 Dep:CC#77 1	.6:Pitch LFO1 Dly:CC#78 17:SW	1 Mod.:CC#80
	18:SW 2 Mod.:CC#81 1C:MFX Send 2:CC#91 1D-	19:Foot Switch:CC#82 1 -~7C:MIDI CC#00~~MIDI CC#95	A:MIDI CC#83 1B:MF	X Send 1:CC#93
**1-4		Pitch EG 2 : Filter	-	
	8 : Flt KTrk 0/+ 9 :	LFO 2 6 : Flt KTr Flt KTrk +/0 A : Amp KTr	k +/+ B : Amp KTrk +/-	
	10 : Poly After 11	Amp KTrk +/0 E: Note Nu After Touch 12: JS X	13 : JS+Y:CC#01	
	18 : Ribbon:CC#16 19	JS+Y & AT/2 16 : JS-Y & Slider:CC#18 1A : KnobMod	l1:#17	
	20 : KnobMod3 [+] 21 :	KnobMod4:#21 1E : KnobMod KnobMod4 [+] 22 : Damper:	#64 23 : Porta.SW:#65	
		Soft:CC#67 26 : SW 1:CC MIDI:CC#83 2A : Tempo	2#80 27 : SW 2:CC#81	
**1-5		Step		
	1A~~28 : 60~~ 200 (3	(2mSec)		
	39~~60 : 1100~~5000 (10	50mSec) 00mSec)		
	61 : KeyOff			
**1-6	4 : Saw 180 5	: Square 6	: Sine 7 :	Saw 0 Guitar
	-	_		Step Triangle-4 Random1 (S/H)
	10 : Random2 (S/H) 11 14 : Random6 (Vector)	: Random3 (S/H) 12	: Random4 (Vector) 13:	Random5 (Vector)
**1-7	8D~~C3 : -12.00~~ -1.20	(0.20 Step)		
	C4~~CD : -1.00~~ -0.55 CE~~32 : -0.50~~ +0.50	(0.05 Step) (0.01 Step)		
	33~~3C : +0.55~~ +1.00 3D~~73 : +1.20~~+12.00	(0.05 Step) (0.20 Step)		
		_		

MOSS PROGRAM PARAMETERS (for Optional EXB-MOSS)

No.: No. in the PROGRAM DUMP DATA.

PARA No. : Parameter ID & SUB ID [Hex] for PARAMETER CHANGE. Left side of ',' is Parameter ID, and right side is SUB ID.

PARAMETER No. (bit) DATA(Hex) : VALUE DESCRIPTION PARA No. | PROGRAM NAME (Head) 0.0 20~~7F 15 PROGRAM NAME (Tail) INSERT EFFECT PARAMETERS 16 1E,00 FX1~~5 (24Bytes * 5) 135 (120 Bytes) 4D,?? MASTER EFFECT PARAMETERS 136 24,00 : FX1~~2 (20Bytes * 2 Return, Chain & EQ (16 bytes) 191 (56 Bytes) 4E.?? ARPEGGIATOR PARAMETERS 192 4B,00 Same as PROGRAM [TABLE 1] ARPEGGIATOR (192~~213) 4C.0D 203 (12 Bytes) COMMON PARAMETERS b0~~1 (OSCILLATOR MODE) 3 Fixed (Means MOSS) b2~~3 | VOICE ASSIGN 0:Mono Multi, 1:Mono Single, 2:Poly 28,03 204 -b4~~5 | KEY PRIORITY 0:Low, 1:High, 2:Last | Available when MONO 28.02 bit6 | (Ignore) bit7 | HOLD 0:OFF, 1:ON 205 BUS SELECT 00:L/R,01~~05:IFX1~~5,06~~09:1~~4,0A:1/2,0B:3/4,0C:Off 206 CATEGORY 00~~0F : 01~~16 28,00 00~~1A : **1-1 207 SCALE TYPE 28,0A | SCALE KEY 00~~0B : C ~~ B 28,0B 209 | RANDOM INTENSITY 00~~63 : 0~~99 28.0C b0~~5 ASSIGN 00~~0C : **1-2 28,0D bit6 | 0:Toggle, 1:Momentary bit7 SW 0:OFF, 1:ON 28,0E 211 SW 2 (Same as SW 1 (210)) 28,10~~12 b0~~6 | KNOB 1 ASSIGN TYPE 00~~7C: **1-3| 28,13 bit7 | REALTIME CONTROLS 0:A, 1:B 28.17 213 KNOB 2 ASSIGN 00~~7C : **1-3 28,14 00~~7C : **1-3 214 KNOB 3 ASSIGN 28.15 $00 \sim 7C : **1-3$ KNOB 4 ASSIGN 28,16 RETRIGGER CONTROL | RETRIGGER CONTROLLER | 00,0B~~29 : *2-1 216 28,04 THRESHOLD VELOCITY | 01~~7F : 1~~127 28.05 UNISON b0~~1| UNISON TYPE 0:OFF, 1:2voices, 2:3voices, 3:6voices 218 bit2 | (UNISON SW) 1 Fixed (Means Enable) 0:Fixed, 1:Dynamic bit3 | UNISON MODE 28.07 00~~63 : 0~~99 219 | UNISON DETUNE 28,08 EG1 220 | START LEVEL 9D~~63 : -99~~99 36,00

		+	+	+
221	+ ATTACK TIME	00~~63 : 0~~99		36,01
222	+ ATTACK LEVEL	+ 9D~~63 : -99~~99	÷ 	36,02
223		; 00~~63 : 0~~99	÷ 	-
224	; 	; 	÷	-
225		; 	÷	-
226	 	+	÷	36,06
227	BOSTAIN EEVEE 	00~~63 : 0~~99	 	36,00
228	+	+	 	
	RELEASE LEVEL +	9D~~6399~~99 + 00~~29 : *2-1	t Madulation	36,08
229	LEVEL AMS +	+	Alternate Modulation	36,09
230	INTENSITY +	9D~~63 : -99~~99 +	 	36,0A +
231	VELOCITY CONTROL	9D~~63 : -99~~99 +	 	36,0B
232	TIME AMS 1 +	00~~29 : *2-1 +	Alternate Modulation	36,0C +
233	INTENSITY +	9D~~63 : -99~~99 +	+	36,0D
234	TIME AMS 2	00~~29 : *2-1 +	Alternate Modulation	36,0E
235	ATTACK INTENSITY	9D~~63 : -99~~99		36,0F
236	DECAY INTENSITY	9D~~63 : -99~~99 +		36,10
237	SLOPE INTENSITY	9D~~63 : -99~~99	Ţ	36,11
238	RELEASE INTENSITY	9D~~63 : -99~~99	Ī	36,12
EG 2 ~~	~ 4	+	+	
239 :	EG 2 (Same as EG	1 (220 ~~ 238))		See above 18 parameters.
	(19 Bytes)			ParamID = 37
257 258 :	+	1 (220 ~~ 238))		ParamID = 37 See above 18 parameters. ParamID = 38
257 	EG 3 (Same as EG (19 Bytes)	1 (220 ~~ 238))		See above 18 parameters.
257 	EG 3 (Same as EG (19 Bytes)			See above 18 parameters. ParamID = 38 See above 18 parameters.
257 	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM	1 (220 ~~ 238)) 1 (00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0	own 180, 08:Square, m-Vector, C:Step Triangle-6, aw-6, 0F:Exponential Tria	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00
257 258 : 276 277 : 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM	1 (220 ~~ 238)) 1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0D:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1	To 0, 05:Saw Up 180, 20wn 180, 08:Square, 20wn 180, 08:Square, 20wn 20wn 20wn 20wn 20wn 20wn 20wn 20wn	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39
257 258 : 276 277 : 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM	1 (220 ~~ 238)) 1 (00:Triangle 0, 01:Trian 03:Sine, 04:Saw Down 0, 07:Saw Down 09:Random-S/H, 0A:Random-S/H, 0A:Random-S/H, 0B:Step Triangle-4, 0D:Step Saw-4, 0E:Step Sa	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nm-Vector, C:Step Triangle-6, Naw-6, 0F:Exponential Triance 1:Exponential Saw Down Nown Nown Nown Nown Nown Nown Nown N	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00
257 258 276 277 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC.	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian	Tp 0, 05:Saw Up 180, nown 180, 08:Square, nm-Vector, C:Step Triangle-6, naw-6, 0F:Exponential Triangle: 1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00 ngle, 3A,01 3A,02 3A,03
257 258 : 276 295 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1	1 (220 ~~ 238)) 1 (00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Random-S/H, 0B:Step Triangle-4, 0D:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7 : 0~~199	To 0, 05:Saw Up 180, rown 180, 08:Square, rown-Vector, C:Step Triangle-6, rown-6, 0F:Exponential Triangle-1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom,
257 258 276 277 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY INTENSITY FREOUENCY AMS 1	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw D 06:Saw Down 0, 07:Saw D 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0 0D:Step Saw-4, 0E:Step D 0:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nown-Vector, C:Step Triangle-6, Naw-6, 0F:Exponential Triangle: 1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom,
257 258 : 276 277 : 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 08:Step Triangle-4, 0 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99	To 0, 05:Saw Up 180, Nown 180, 08:Square, m-Vector, C:Step Triangle-6, aw-6, 0F:Exponential Triance 1:Exponential Saw Down byVoice + Alternate Modulation + Alternate Modulation + Alternate Modulation	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39
257	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 08:Step Triangle-4, 0 00:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nm-Vector, C:Step Triangle-6, Naw-6, 0F:Exponential Triance 1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00 ngle, 3A,01 3A,02 3A,03 3A,04 3A,05 3A,06
257 258 : 276 277 : 295 LFO 1 b0~~5	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian	To 0, 05:Saw Up 180, own 180, 08:Square, om-Vector, C:Step Triangle-6, law-6, 0F:Exponential Triall:Exponential Saw Down byVoice Alternate Modulation Alternate Modulation Alternate Modulation	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00 3A,01 3A,02 3A,03 3A,04 3A,05 3A,05 3A,06
257 258 : 276 277 : 295 LFO 1 b0~~5 297 297 298 299 300 301 302 303	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM WAVEFORM KEY SYNC. FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 08:Step Triangle-4, 0 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: 0~~99 00~~29: *2-1	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nown-Vector, CC:Step Triangle-6, Naw-6, 0F:Exponential Triance 1:Exponential Saw Down byVoice + Alternate Modulation + Alternate Modulation + Alternate Modulation	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00 ngle, 3A,01 3A,02 3A,03 3A,04 3A,05 3A,06 3A,06
257	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS INTENSITY	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw D 06:Saw Down 0, 07:Saw D 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0E:Step S 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	To 0, 05:Saw Up 180, rown 180, 08:Square, rm-Vector, C:Step Triangle-6, raw-6, 0F:Exponential Triance 1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39
257 258 : 276	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS INTENSITY	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian	To 0, 05:Saw Up 180, rown 180, 08:Square, rm-Vector, C:Step Triangle-6, raw-6, 0F:Exponential Triance 1:Exponential Saw Down	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom,
257 258 : 276 277 : 295 LFO 1 b0~~5 297 297 298 299 300 301 302 303 304 305	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM WAVEFORM KEY SYNC. FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS INTENSITY OFFSET	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0 0D:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nm-Vector, C:Step Triangle-6, Naw-6, 0F:Exponential Triance 1:Exponential Saw Down byVoice +	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39
257	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS INTENSITY OFFSET MIDI/TEMPO SYNC. TIMES	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian	To 0, 05:Saw Up 180, own 180, 08:Square, on Vector, C:Step Triangle-6, aw-6, 0F:Exponential Triand: 1:Exponential Saw Down byVoice Alternate Modulation Alternate Modulation Alternate Modulation Alternate Modulation	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39
257 258 : 276 277 : 295 LFO 1 b0~~5 296 b6~~7 297 298 300 301 302 303 304 305 b0~~3 306 b4~~6	EG 3 (Same as EG (19 Bytes) EG 4 (Same as EG (19 Bytes) WAVEFORM KEY SYNC. FREQUENCY FREQUENCY AMS 1 INTENSITY FREQUENCY AMS 2 INTENSITY FADE IN AMPLITUDE AMS INTENSITY OFFSET MIDI/TEMPO SYNC. TIMES BASE NOTE	1 (220 ~~ 238)) 00:Triangle 0, 01:Trian 03:Sine, 04:Saw U 06:Saw Down 0, 07:Saw U 09:Random-S/H, 0A:Rando 0B:Step Triangle-4, 0 0D:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1 0:Off, 1:byTimbre, 2: 00~~C7: 0~~199 00~~29: *2-1 9D~~63: -99~~99	To 0, 05:Saw Up 180, Nown 180, 08:Square, Nown-Vector, C:Step Triangle-6, Naw-6, 0F:Exponential Triance 1:Exponential Saw Down byVoice	See above 18 parameters. ParamID = 38 See above 18 parameters. ParamID = 39 dom, 3A,00 ngle, 3A,01 3A,02 3A,03 3A,04 3A,05 3A,06 3A,06 3A,07 3A,08 3A,08 3A,08 3A,09 3A,0A

: 317	LFO 2 (Same as LF (11 Bytes)	O 1 (296 ~~ 306))	RITON-SERIES MIDI Implementation	Version 1.2 (In parameters. ParamID = 3B
	+		 	
318 : 328	LFO 3 (Same as LF (11 Bytes)	CO 1 (296 ~~ 306))		See above 14 parameters. ParamID = 3C
329 : 339	LFO 4 (Same as LF	O 1 (296 ~~ 306))		See above 14 parameters. ParamID = 3D
OSC (+COMMON PITCH MODULATION			
340	+	C4~~18 : -60~~24	+ 	+ 29,04
341	+	C4~~18 : -60~~24	+ 	 29,05
	+		+	
342 b0~	~3 JS(+X)	- 00:Continuous, 01:1/8, (02:1/4, 03:1/2, 05~~0F:01	29,06 ~~12 +
b4~-	~7 JS(-X)		+	29,07 +
343 	COMMON PITCH AMS	00~~29 : *2-1	Alternate Modulation	29,02 +
344	INTENSITY	9D~~63 : -99~~99	 +	29,03
PORT	AMENTO		· +	· +
bit(0:OFF, 1:ON	 	29,08
bit		0:OFF, 1:ON	 -	29,09
346	PORTAMENTO TIME	00~~63 : 0~~99		29,0A
347	TIME AMS	00~~29 : *2-1	Alternate Modulation	29,0B
348	INTENSITY	9D~~63 : -99~~99	†	29,0C
OSC :	++ 1		+	+
349	OSC TYPE		odel, OA:Reed Model,	
350	OCTAVE	00:-2[32'], 01:-1[16']	, 02:0[8'], 03:1[4']	2A,00
351	TRANSPOSE	F4~~0C : -12~~12	-	2A,01
352	TUNE	CE~~32 : -50~~50 [cent]	+	2A,02
353	FREQUENCY OFFSET	9C~~64 : -10.0~~10.0 [Hz	z]	2A,03
354	PITCH SLOPE CENTER KEY	00~~7F : C-1~~G9		2A,04
 355	RAMP LOW	CE~~64 : -1.00~~2.00		2A,05
356	RAMP HIGH	CE~~64 : -1.00~~2.00	+ 0.01 by step.	+ 2A,06
357	PITCH AMS 1	00~~29 : *2-1	+ Alternate Modulation	+ 2A,07
 358	+	9D~~63 : -99~~99	* 	+ 2A,08
 359	+		+ Alternate Modulation	 2A,09
360		9D~~63 : -99~~99	+ 	+ 2A,0A
 361	PITCH AMS 2	00~~29 : *2-1	Alternate Modulation	2A,0B
362	INTENSITY	9D~~63 : -99~~99	+ 	2A,0C
 363	+ - i		+	+
: 400	OSC SET 38 bytes (Par	rameters are determined by	OSC TYPE. See [Table 2-2]].)
OSC :	+2			
101	OSC TYPE		ndard, 01:Comb Filter, 02 d, 05:Cross Mod, 06:Sync N no Model	
402	OSC 2			See above 51
: 452	(Much the same as C (51 Bytes)	OSC 1 (350 ~~ 400), except	OSC TYPE.)	parameters. ParamID = 2B
SUB (+-	
 153	++ OCTAVE	00:-2[32'], 01:-1[16']	, 02:0[8'], 03:1[4']	

454				RITON-SERIES MIDI Implementation		Version 1.2 (May.1
	TRANSPOSE	F4~~0C	: -12~~12	 +		2C,01
455 	TUNE	CE~~32	: -50~~50 [cent]			2C,02
456	FREQUENCY OFFSET	9C~~64	: -10.0~~10.0 [H	z] +		2C,03
457	PITCH SLOPE CENTER KEY	00~~7F	: C-1~~G9			2C,04
458	RAMP LOW	CE~~64	: -1.00~~2.00	0.01 by atom		2C,05
459 	RAMP HIGH	CE~~64	: -1.00~~2.00	+ 0.01 by step.	-	2C,06
460	PITCH AMS 1	00~~29	: *2-1	Alternate Modulation		2C,07
 461	++ INTENSITY	9D~~63	 : -99~~99	+	-	2C,08
 462	+	00~~29	· *2-1	+ Alternate Modulation		2C,09
 463	+	9D~~63	 : -99~~99	+	-	2C,0A
 464	++ PITCH AMS 2	00~~29	· *2-1	+ Alternate Modulation		2C,0B
 465	+	9D~~63	 : -99~~99	+	4	2C,0C
 466	++ WAVEFORM	0:Saw,		+iangle, 3:Sine		2D,00
NOISE	¦ E GENERATOR	<u>-</u> -				- -
 467	+	 ():THRII	1:LPF, 2:HPF, 3	: :BPF		 2D,01
 468	NOISE FIBLER TIPE		: 00~~99	 +		2D,01 + 2D,02
400 469	FILTER INPOT TRIM +		· 00~~99 : 00~~99	 	 !	2D,02 + 2D,03
 460		00~~29		 +	 	+
	FREQUENCY AMS 1			Alternate Modulation	·	2D,04
471 	INTENSITY		: -99~~99	 +		2D,05
472 	FREQUENCY AMS 2	00~~29		Alternate Modulation +	·	2D,06
473 	INTENSITY		: -99~~99	 +		2D,07
474 	FILTER RESONANCE ++	00~~63	: 00~~99 	 +		2D,08
OSC M	1IXER ++			+		+
475 	OSC 1 -> Mixer1	00~~63	: 00~~99	 +		2E,00
476 	LEVEL AMS	00~~29	: *2-1 	Alternate Modulation		2E,01
477 	INTENSITY	9D~~63	: -99~~99	 +		2E,02
478 : 480	OSC 1 -> Mixer2 (Comp. o.g	OSC 1 -> Mixer1	i	See al	
				, ,	parame SUB II	
481	OSC 2 -> Mixer1 (SUB II See ak parame	eters. 0 = 03~~05
481 : 483 	OSC 2 -> Mixer1 (Same as	OSC 1 -> Mixer1	(475 ~~ 477))	SUB II See al parame SUB II See al parame	eters. 0 = 03~~05
481 : 483 	OSC 2 -> Mixerl (Same as	OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477))	SUB II See al parame SUB II See al parame SUB II See al parame	eters. 0 = 03~~05 cove 3 eters. 0 = 06~~08 cove 3 eters. 0 = 09~~0B cove 3 eters.
481 : 483 	OSC 2 -> Mixer1 (Same as (OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II	eters. 0 = 03~~05 cove 3 eters. 0 = 06~~08 cove 3 eters. 0 = 09~~0B cove 3 eters. 0 = 00~~0E
481 : 483 	OSC 2 -> Mixer1 (OSC 2 -> Mixer2 (SUB OSC -> Mixer1 (SUB OSC -> Mixer1 (Same as (OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	Sub II See al parame Sub II See al parame Sub II See al parame Sub II See al parame Sub II See al parame Sub II	eters. 0 = 03~~05 rove 3 eters. 0 = 06~~08 rove 3 eters. 0 = 09~~0B rove 3 eters. 0 = 0C~~0E rove 3 eters. 0 = 0C~~11
	OSC 2 -> Mixer1 (OSC 2 -> Mixer2 (SUB OSC -> Mixer1 (SUB OSC -> Mixer1 (Same as (OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II	eters. 0 = 03~~05 every 3 eters. 0 = 06~~08 every 3 eters. 0 = 09~~0B every 3 eters. 0 = 0C~~0E every 3 eters. 0 = 0C~~0E every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 3 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4 every 4
481 : 483 	OSC 2 -> Mixer1 (OSC 2 -> Mixer2 (SUB OSC -> Mixer1 (SUB OSC -> Mixer1 (Noise -> Mixer1 (Same as (OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II See ak parame SUB II	eters. 0 = 03~~05
481 : 483 484 : 486 	OSC 2 -> Mixer1 (OSC 2 -> Mixer2 (SUB OSC -> Mixer1 (SUB OSC -> Mixer1 (Noise -> Mixer1 (Noise -> Mixer2 (Feedback -> Mixer1 (Same as (Same OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II	eters. 0 = 03~~05	
481 : 483 -484 : 486 -487 : 489 	OSC 2 -> Mixer1 (OSC 2 -> Mixer2 (SUB OSC -> Mixer1 (SUB OSC -> Mixer1 (Noise -> Mixer1 (Noise -> Mixer2 (Feedback -> Mixer1 (Same as (Same OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1 OSC 1 -> Mixer1	(475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477)) (475 ~~ 477))	SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SUB II See al parame SuB II See al parame SuB II See al parame	eters. 0 = 03~~05	

				KORG T	RITON-SERIES MID	OI Implementation	Version 1.2 (May.
	bit0	osc 1	1		1 Fixed (Means Enable)	
E0E	bit1	OSC 2	1		1 Fixed (Means Enable)	
505	bit2	SUB OSC	1		1 Fixed (Means Enable)	Ī Ī
	bit3	Noise	1		1 Fixed (Means Enable)	
	FILTER	ROUTING			+		
	b0~~1	ROUTING	0:Seria	 l 1, 1:Serial 2	. 2:Paralle	 1	2F,00
506	bit2	+ LINK SW	0:OFF,	1:ON	+ 		2F,01
	FILTER	++ 1			+		-+
507		+ FILTER TYPE	0:LPF(A), 1:HPF(A), 2:B	PF(A), 3:BRF	(A), 4:DualBP(A/B)	30,00
 508		+ INPUT TRIM	00~~63	· 00~~99	+ 		30,01
 509		FILTER FREQUENCY	00~~63	: 00~~99	+ 		30,02
 510		FREQUENCY KBD TRACK KEY LOW	00~~7F	: C-1~~G9	-		30,03
 511		++ KEY HIGH	00~~7F	: : C-1~~G9	+ 		30,04
 512		RAMP LOW	9D~~63	: : -99~~99	÷ 		30,05
 513		RAMP HIGH	9D~~63	: : -99~~99	+ 		30,06
 514		FREQUENCY MOD.EG	00~~04	: : EG1~~4, AmpEG	Alternate	 Modulation	30,07
 515			9D~~63	 : -99~~99	; 		30,08
 516			00~~29	: : *2-1	+ Alternate	 Modulation	30,09
 517			9D~~63	: : -99~~99	; 		30,0A
 518			00~~29	: : *2-1	Alternate	 Modulation	30,0B
 519	·		9D~~63	 : -99~~99	. -		30,0C
 520	·	FILTER RESONANCE	00~~63	: : 00~~99	; 		30,0D
 521	·	RESONANCE AMS	00~~29	: : *2-1	 Alternate	 Modulation	30,0E
 522		intensity	9D~~63	: : -99~~99	 -		++ 30,0F
 523		 		: 00~~99	+ 		32,00
 524		B:FILTER FREQUENCY		: 00~~99	' + 		32,01
	·	B:FREQ. KBD TRACK			 + 		-+
525		KEY LOW	00~~7F	: C-1~~G9			32,02
526	j	KEY HIGH	00~~7F	: C-1~~G9	 		32,03
527		RAMP LOW	9D~~63	: -99~~99	<u> </u>		32,04
528 		RAMP HIGH	9D~~63	: -99~~99	ļ		32,05
 529		B:FREQ. EG INTENSITY	9D~~63	: -99~~99	Alternate	Modulation	32,06
530		B:FREQ. AMS 1 INT.	9D~~63	: -99~~99	Alternate	Modulation	32,07
531		B:FREQ. AMS 2 INT.	9D~~63	: -99~~99	Alternate	Modulation	32,08
532		B:FILTER RESONANCE	00~~63	: 00~~99	+ 		32,09
533		B:RESONANCE INT.	9D~~63	: : -99~~99	+ Alternate	Modulation	32,0a
 534		+			+	See above 27 g	parameters.
: 560		FILTER 2 (Same as (27 Bytes)	FILTER I	(507 ~~ 533))		ParamID = 31 c	or (B:) 33
	AMPLIF	 IER 1				+	+
561		AMP LEVEL	00~~63	: 00~~99	+ 		34,00
 562		KEYBOARD TRACK KEY LOW	00~~7F	: C-1~~G9	+		34,01
 563		KEY HIGH	00~~7F	: C-1~~G9	+ 		34,02
 564	·	RAMP LOW	9D~~63	: : -99~~99	+ 		34,03
 565	·	RAMP HIGH	9D~~63	: : -99~~99	+ 		34,04
		· '			+		-+

		KORG T	RITON-SERIES MIDI I1	nplementation	Version 1.2 (May.17.'00)
567	(Reserved)	99	99 Fixed		
568	AMS	00~~29 : *2-1	Alternate M	odulation	34,06
569	INTENSITY	9D~~63 : -99~~99	Ī		34,07
570	AMPLIFIER 2 (Same	(Same as AMPLIFIER 1 (561 ~~ 569)) PARA No. :34,08			rameters.
578	(9 Bytes)				8~~34,0F
AMP EG				+	
579	(Reserved)	0	0 Fixed		
580	ATTACK TIME	00~~63 : 0~~99	ļ		35,00
581	ATTACK LEVEL	00~~63 : 0~~99	<u> </u>		35,01
582	DECAY TIME	00~~63 : 0~~99	<u> </u>		35,02
583	BREAK LEVEL	00~~63 : 0~~99	ļ		35,03
584	SLOPE TIME	00~~63 : 0~~99	ļ		35,04
585	SUSTAIN LEVEL	00~~63 : 0~~99	ļ		35,05
586	RELEASE TIME	00~~63 : 0~~99	 		35,06
587	(Reserved)	0	0 Fixed		

00~~29 : *2-1

9D~~63 : -99~~99

9D~~63 : -99~~99

00~~29 : *2-1

9D~~63 : -99~~99

9D~~63 : -99~~99

9D~~63 : -99~~99

9D~~63 : -99~~99

00~~29 : *2-1

9D~~63 : -99~~99

00~~7F : 0~~127

00~~7F : 0~~127

00~~7F : 0~~127

00~~7F : L000~~R127

00~~29 : *2-1

[TABLE 2-2] MULTI OSCILLATOR PARAMETERS (for Optional EXB-MOSS)

1999.05.07

35,07

35,08

35,09

35,0A

35,0B

35,0D

35,0E

35,0F

35,10

34,10

34,11

34,12

34,13

34,14

34,15

35,0C

Alternate Modulation

Alternate Modulation

Alternate Modulation

Alternate Modulation

No. : No. in the OSC SET (38 bytes).

OUTPUT LEVEL

LEVEL AMS

.

TIME AMS 1

TIME AMS 2

OUTPUT LEVEL/PAN

PAN AMS

SEND 1

SEND 2

VELOCITY CONTROL

INTENSITY

INTENSITY

DECAY INTENSITY | 9D~~63 : -99~~99

ATTACK INTENSITY

SLOPE INTENSITY

INTENSITY

RELEASE INTENSITY

588

589

590

591

592

593

594

595

596

598

599

600

601

602

603

SUB ID : Right side of '/' is SUB ID for OSC 2.

	+	+	+	
No. (bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	SUB ID
MULTI	OSCILLATOR PARAMETERS	38 Bytes	+	,
0:Standard ParamID = 3E				
00	WAVE WAVE	0:Saw, 1:Pulse		00/16
01	WAVE EDGE	00~~63 : 0~~99		01/17
02	LEVEL	00~~63 : 0~~99		02/18
03	TRIANGLE LEVEL	00~~63 : 0~~99		03/19
04	SINE LEVEL	00~~63 : 0~~99		04/1A
05	PHASE SHIFT	9D~~63 : -99~~99	ļ	05/1B

		KORO	G TRITON-SERIES MIDI Implementation	Version 1.2 (May.
06	WAVEFORM WAVEFORM	9D~~63 : -99~~99		06/1C
07	++ MOD. LFO	00~~03 : LFO 1 ~~ 4	+	-++ 07/1D
08	++ INTENSITY	9D~~63 : -99~~99	+	++ 08/1E
09	++ AMS	00~~29 : *2-1	+	-+ 09/1F
10	+ INTENSITY	9D~~63 : -99~~99	+	0A/20
11	WAVE SHAPE INPUT LEVEL	00~~63 : 0~~99		0B/21
12	++ INPUT LEVEL AMS	00~~29 : *2-1	+	-+ 0C/22
13	++ INTENSITY	9D~~63 : -99~~99	+	++ OD/23
14	++ OFFSET	9D~~63 : -99~~99		-++ 0E/24
15	++ TYPE	0:Clip, 1:Reso		-+ 0F/25
16	++ SHAPE	00~~63 : 0~~99	+	10/26
17	++ SHAPE AMS	00~~29 : *2-1	+	11/27
18	++ INTENSITY	9D~~63 : -99~~99	+	12/28
19	++ BALANCE	00~~63 : 0~~99	+	13/29
20	++ BALANCE AMS	00~~29 : *2-1	+	14/2A
21	++ INTENSITY	9D~~63 : -99~~99	- i	15/2B
22~~37		0		-+
	++ b Filter		+	-++ mID = 3F
	++ INPUT			-+
00	INPUT WAVE	0:OSC2(1)+Noise, 1:Sub 3:Filter2+Noise, 4:Pub	b OSC+Noise, 2:Filter1+Noise, lse Noise, 5:Impulse	00/0E
01	INPUT WAVE LEVEL	00~~63 : 0~~99		01/0F
02	NOISE LEVEL	00~~63 : 0~~99		02/10
03	PULSE WIDTH	00~~63 : 0~~99		03/11
04	INPUT LEVEL AMS	00~~29 : *2-1	Alternate Modulation	04/12
05	INTENSITY	9D~~63 : -99~~99	Ī	05/13
06	FEEDBACK FEEDBACK	00~~63 : 0~~99		06/14
07	++ AMS 1	00~~29 : *2-1	+	07/15
08	++ INTENSITY	9D~~63: -99~~99	+	08/16
09	++ AMS 2	00~~29 : *2-1	+	09/17
10	++ INTENSITY	9D~~63 : -99~~99	+	0A/18
11	+ HIGH DAMP HIGH DAMP	00~~63 : 0~~99	+	0B/19
12	; ; AMS	00~~29 : *2-1	+	
13	; ;	9D~~63 : -99~~99	+ 	++ 0D/1B
14~~37	++ (Reserved)	0		
2:VPM	++		+	mID = 40
	++ CARRIER			-+
00	WAVE ++	0:Saw, 1:Square, 2:5	Triangle, 3:Sine +	00/19
01	WAVE LEVEL ++	00~~63 : 0~~99	 +	01/1A -++
02	LEVEL AMS 1 ++	00~~29 : *2-1	Alternate Modulation	02/1B ++
03	INTENSITY +	9D~~63 : -99~~99	 +	03/1C -++
04	LEVEL AMS 2	00~~29 : *2-1	Alternate Modulation	04/1D
05	INTENSITY	9D~~63 : -99~~99	<u> </u>	05/1E
06		00~~63 : 0~~99	ļ	06/1F
07	++ SHAPE AMS 1	00~~29 : *2-1	+	07/20

08	INTENSITY	9D~~63 :		DRG TRITON-SERIES MIDI Implementation	Version 1.2 (May
 09	-++ SHAPE AMS 2	00~~29 :	*2-1	Alternate Modulation	09/22
10	-++ INTENSITY	9D~~63 :	-99~~99	+	++ 0A/23
11	-++ WAVE SHAPE TYPE	00~~01 :	1~~2		++ 0B/24
12	FEEDBACK	00~~63 :	0~~99	-	+
13	MODULATOR FREQUENCY COARSE	00~~10 :	0.5~~16		0D/26
14	FREQUENCY FINE	CE~~32 :	-50~~50	!	OE/27
15	FREQUENCY AMS 1	00~~29 :	*2-1	Alternate Modulation	0F/28
16	INTENSITY	9D~~63 :	-99~~99		10/29
17	FREQUENCY AMS 2	00~~29 :	*2-1	Alternate Modulation	11/2A
18	INTENSITY	9D~~63 :	-99~~99	+ 	12/2B
19	WAVE		:Square, 2 , 5:Sub OS	2:Triangle, 3:Sine C, 6:Filter1, 7:Filter2	13/2C
20	WAVE LEVEL	00~~63 :	0~~99	-	14/2D
21	LEVEL AMS 1	00~~29 :	*2-1	Alternate Modulation	15/2E
22	INTENSITY	9D~~63 :	-99~~99	‡	16/2F
23	LEVEL AMS 2	00~~29 :	*2-1	Alternate Modulation	17/30
24	INTENSITY	9D~~63 :	-99~~99	+	18/31
25~~37	(Reserved)	0		+	
3:Res	-++ sonance			+	amID = 41
00	INPUT WAVE	0:OSC2(1)	, 1:Sub 0S0	C, 2:Noise, 3:Filter1, 4:Filter2	00/20
01	-++ INPUT WAVE LEVEL	00~~63 :	0~~99		01/21
02	-++ LEVEL AMS 1	00~~29 :	*2-1	Alternate Modulation	02/22
03	-+	9D~~63 :	-99~~99	+	03/23
04	LEVEL AMS 2	00~~29 :	*2-1	+	04/24
 05	intensity	9D~~63 :	 -99~~99	-	05/25
	-+			-	+
06 	RESONANCE -++	00~~63:	0~~99	 	06/26 ++
07 	FREQUENCY COARSE	00~~0F:	01~~16	 +	07/27
08	FREQUENCY AMS	00~~29:	*2-1	Alternate Modulation	08/28
09	INTENSITY	F1~~0F :	-15~~15	 +	09/29
10	FREQUENCY FINE	9D~~63 :		 +	0A/2A
11	LEVEL	00~~63:	0~~99		0B/2B
12	BPF 2 RESONANCE	00~~63:	0~~99		0C/2C
13	FREQUENCY COARSE	00~~0F:	01~~16		0D/2D
14	FREQUENCY AMS	00~~29:	*2-1	Alternate Modulation	0E/2E ++
15	INTENSITY	F1~~0F :	-15~~15	 +	OF/2F
16 	FREQUENCY FINE	9D~~63 :	-99~~99 		10/30
17	LEVEL	00~~63:	0~~99	i	11/31
18	BPF 3 RESONANCE	00~~63:	0~~99		12/32
19	FREQUENCY COARSE	00~~0F :	01~~16	· +	13/33
	FREQUENCY AMS	00~~29 :	*2-1	Alternate Modulation	14/34
20			_1515	1	15/35
	INTENSITY	F1~~0F :	-13~~13	i	
20 	INTENSITY FREQUENCY FINE	F1~~0F: 9D~~63:			16/36

	_+		+	+
24	BPF 4 RESONANCE	00~~63 : 0~~99		18/38
25	-++ FREQUENCY COARSE	00~~0F : 01~~16	+ 	19/39
26	-++ FREQUENCY AMS	00~~29 : *2-1	+ Alternate Modulation	-+
27	-++ INTENSITY	F1~~0F : -15~~15	+ 	+ 1B/3B
28	FREQUENCY FINE	9D~~63 : -99~~99	÷	1C/3C
 29	-++ LEVEL	00~~63 : 0~~99	; ;	-+ 1D/3D
	-+		÷ 	-÷
30	AMS	00~~29 : *2-1	Alternate Modulation	1E/3E +
31	INTENSITY -++	9D~~63 : -99~~99	 +	1F/3F
32~~37	(Reserved)	0	0 Fixed	
4:Rir	ng Modulation		Parar	mID = 42
00	WAVE INPUT WAVE	0:OSC2(1), 1:Sub OSC, 2	:Noise, 3:Filter1, 4:Filter2	00/09
01	CARRIER WAVE	0:Saw, 1:Square, 2:Tr	iangle, 3:Sine	01/0A
02	MODULATION DEPTH DEPTH	00~~63 : 0~~99		02/0B
03	-+	00~~29 : *2-1	+ Alternate Modulation	03/0C
04	-+ INTENSITY	9D~~63 : -99~~99	† 	+ 04/0D
05	-+	00~~29 : *2-1	+ Alternate Modulation	-+ 05/0E
 06	-++ INTENSITY	9D~~63 : -99~~99	+ 	+ 06/0F
07	-+ TYPE	00~~01 : 1~~2	÷ 	07/10
08	-+	00~~63 : 0~~99	÷	08/11
 09~~37	-++ (Reserved)	0	+	-÷
5:Cro	-++ oss Modulation		+ Para	-+ amID = 43
	-++ WAVE			-+
00	INPUT WAVE -++	0:OSC2(1), 1:Sub OSC, 2	:Noise, 3:Filter1, 4:Filter2	00/08 -+
01 	CARRIER WAVE	0:Saw, 1:Square, 2:Tr	iangle, 3:Sine +	01/09
02	MODULATION DEPTH DEPTH	00~~63 : 0~~99		02/0A
03	DEPTH AMS 1	00~~29 : *2-1	Alternate Modulation	03/0B
04	INTENSITY	9D~~63 : -99~~99	Ť	04/0C
05	DEPTH AMS 2	00~~29 : *2-1	Alternate Modulation	05/0D
06	-+ INTENSITY	9D~~63 : -99~~99	† 	+ 06/0E
07	-++ WAVE EDGE	00~~63 : 0~~99	+ 	-+ 07/0F
08~~37	-+	0	+ 0 Fixed	-+
6:Syr	-++ nc Modulation		•	-+ mID = 44
00	WAVE	0:OSC2(1), 1:Sub OSC, 2	:Noise, 3:Filter1, 4:Filter2	00/03
	INPUT WAVE			00,00
01	INPUT WAVE -+	0:Saw, 1:Square, 2:Tr		01/04
01 02	-++	0:Saw, 1:Square, 2:Tr 00~~63: 0~~99		-+
02	SLAVE WAVE 		+	01/04
02 03~~37	SLAVE WAVE WAVE EDGE (Reserved)	00~~63 : 0~~99	+	01/04
02	SLAVE WAVE WAVE EDGE (Reserved) gan Model	00~~63 : 0~~99	+	01/04
02 03~~37 7:0rg	SLAVE WAVE WAVE EDGE (Reserved) gan Model DRAWBAR 1 WAVE	00~~63 : 0~~99 0 0:Sine1, 1:Sine2, 2:S	+	01/04 02/05 02/05 00/19
02 03~~37 7:Ors	SLAVE WAVE WAVE EDGE (Reserved) gan Model DRAWBAR 1 WAVE HARMONICS COARSE	00~~63: 0~~99 0 0:Sinel, 1:Sine2, 2:S 00~~0F: 1('16)~~16('1)	+	01/04
02 03~~37 7:0rg	SLAVE WAVE WAVE EDGE (Reserved) gan Model DRAWBAR 1 WAVE	00~~63 : 0~~99 0 0:Sine1, 1:Sine2, 2:S	+	01/04 02/05 02/05 02/05
02 03~~37 7:Org	SLAVE WAVE WAVE EDGE (Reserved) gan Model DRAWBAR 1 WAVE HARMONICS COARSE	00~~63: 0~~99 0 0:Sinel, 1:Sine2, 2:S 00~~0F: 1('16)~~16('1)	parar ine3, 3:Triangle	01/04 02/05 02/05 02/05 00/19

		KORG TRITON-SERIES MIDI Implementation	Version 1.2 (May.
05	INTENSITY	9D~~63 : -99~~99	05/1E
06	PERCUSSION LEVEL	00~~63:0~~99	06/1F
07	DRAWBAR 2	0:Sine1, 1:Sine2, 2:Sine3, 3:Triangle	07/20
08	HARMONICS COARSE	00~~0F: 1('16)~~16('1)	08/21
09	HARMONICS FINE	9D~~63 : -99~~99	09/22
10	LEVEL	00~~63 : 0~~99	OA/23
11	LEVEL AMS	00~~29 : *2-1 Alternate Modulation	OB/24
12	INTENSITY	9D~~63 : -99~~99	OC/25
13	PERCUSSION LEVEL	00~~63 : 0~~99	OD/26
14	DRAWBAR 3 WAVE	0:Sine1, 1:Sine2, 2:Sine3, 3:Triangle	0E/27
15	HARMONICS COARSE	00~~0F: 1('16)~~16('1)	OF/28
16	+ HARMONICS FINE	9D~~63 : -99~~99	10/29
17	+	00~~63 : 0~~99	-+ 11/2A
18	++- LEVEL AMS	00~~29 : *2-1 Alternate Modulation	-+ 12/2B
19	INTENSITY	9D~~63 : -99~~99	13/2C
20	PERCUSSION LEVEL	- 00~~63 : 0~~99	14/2D
21	PERCUSSION GENERATOR TRIGGER MODE	0:Single, 1:Multi	15/2E
22	DECAY	00~~63 : 0~~99	16/2F
23			17/30
24	+ INTENSITY	9D~~63 : -99~~99	18/31
25~~37	+	0 0 Fixed	-+
8:E.Pi	++ iano Model	+	-++ mID = 46
00	HAMMER FORCE	00~~63 : 0~~99	00/0E
01	++- VELOCITY CURVE	FF:Off, 0~~63 : 0~~99	-+ 01/0F
02	++- WIDTH	00~~63 : 0~~99	02/10
03	CLICK NOISE LEVEL	-	03/11
04	TONE GENERATOR DECAY	00~~63 : 0~~99	04/12
05	++- RELEASE		05/13
06	OVERTONE LEVEL	00~~63 : 0~~99	06/14
07		00~~63 : 0~~99	07/15
08	DECAY	00~~63 : 0~~99	08/16
09	PICKUP LOCATION	00~~63 : 0~~99	09/17
10	LOCATION AMS	00~~29: *2-1 Alternate Modulation	-+
11		 9D~~63 : -99~~99	0B/19
		i	
12	FREQUENCY	00~~31 : 0~~49	0C/1A
13	GAIN ++	EE~~12 : -18~~18 [dB] 	0D/1B -++
14~~37	(Reserved)	0 0 Fixed	
9:Bras	ss Model ++	Para	mID = 47
00	INSTRUMENT TYPE	00~~02:Brass1~~3, 03~~04:Horn1~~2, 05:Reed Brass	00
bit0	JUMP BEND SW JS(+X)	0:OFF, 1:ON	01
01	·		-+

02	BREATH PRESSURE MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	03
 03	HOD. EG	9D~63: -99~99		++ 04
03 04	INTENSITI 	00~~29 : *2-1	Alternate Modulation	04 -++ 05
 05	AMS 1	9D~~63 : -99~~99	Alternate Modulation	++ 06
 06	++ AMS 2	00~~29 : *2-1	Alternate Modulation	-+
00 07	<u>+</u>	9D~~63: -99~~99	Alternate Modulation	07
	INTENSITY +	0	0 Fixed	-+
	(Reserved) ++ LIP CHARACTER	· · · · · · · · · · · · · · · · · · ·	0 F1Xea	
09	LIP	00~~63 : 0~~99		09
10	AMS	00~~29 : *2-1	Alternate Modulation	0A
11	INTENSITY	9D~~63 : -99~~99		0B
12~~14	(Reserved)			ļ ļ
15	BELL CHARACTER TONE	00~~63 : 0~~99		00
16	++ RESONANCE	00~~63 : 0~~99		OD
17	BREATH NOISE	00~~63 : 0~~99		-++ 0E
18~~27	+ (Reserved)			-+
28	PEAKING EQ FREQUENCY	00~~31 : 0~~49		OF
29	++ Q	00~~1D : 0~~29		10
30	++ GAIN	EE~~12 : -18~~18 [dB]		11
31	++ STRENGTH	00~~63 : 0~~99		12
32~~37	+ (Reserved)			
10:Ree	++ d Model		 Param	-++ mID = 48
00	INSTRUMENT TYPE	09~~0A:Flute 1~~2, 0B:Par	03~~04:Soft Sax 1~~2, 07:Bassoon, 08:Clarinet, n Flute, 0C:Ocarina, rmonica 1~~2, 10:Reed Synth	00
bit0	JUMP BEND SW JS(+X)	0:OFF, 1:ON		01
bit1	JS(-X)	0:OFF, 1:ON		02
0.2	BREATH PRESSURE	00 04 · EC 1 · 4 AmpEC	Alternate Medulation	
	MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	03
03	MOD. EG + INTENSITY +	9D~~63:-99~~99		04 04
03	MOD. EG	9D~~63: -99~~99	Alternate Modulation Alternate Modulation	04
03 04 05	MOD. EG INTENSITY AMS 1 INTENSITY	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	Alternate Modulation	04 05 06
03 04 05	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1		04 05 06 07
03 04 05 06	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1	Alternate Modulation	04 05 06
03 04 05 06 07 08~~12	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved)	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	Alternate Modulation	04 05 06 07 08
03 04 05 06 07 08~~12	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved)	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1	Alternate Modulation	04 05 06 07
04 05 06 07 08~~12	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	Alternate Modulation	04 05 06 07 08
03 04 05 06 07 08~~12	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved)	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99	Alternate Modulation	04 05 06 07 08
03 04 05 06 07 08~~12 13 14~~25	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE (Reserved) REED CHARACTER AMS INTENSITY	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~63: 0~~99	Alternate Modulation Alternate Modulation	04 05 06 07 08 09 09
03 04 05 06 07 08~~12 13 14~~25 26 27 28	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE (Reserved) REED CHARACTER AMS	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~63: 0~~99	Alternate Modulation Alternate Modulation	04 05 06 07 08 09 09 0A
03 04 05 06 07 08~~12 13 14~~25	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE (Reserved) REED CHARACTER AMS INTENSITY BELL CHARACTER	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~63: 0~~99 00~~29: *2-1 9D~~63: -99~~99	Alternate Modulation Alternate Modulation	04 05 06 07 08 09 09 0A 0B
03 04 05 06 07 08~~12 13 14~~25	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE (Reserved) REED CHARACTER AMS INTENSITY BELL CHARACTER TONE	9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99	Alternate Modulation Alternate Modulation	04 05 06 07 08 09 09 0A 0B 0C
03 04 05 06 07 08~~12 13 14~~25 26 27 28 29	MOD. EG INTENSITY AMS 1 INTENSITY AMS 2 INTENSITY (Reserved) BREATH NOISE (Reserved) REED CHARACTER AMS INTENSITY BELL CHARACTER TONE RESONANCE	9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~29: *2-1 9D~~63: -99~~99 00~~63: 0~~99 00~~63: 0~~99 00~~63: 0~~99	Alternate Modulation Alternate Modulation	04 05 06 07 08 09 09 0A 0B 0C 0D 0D

		KOKO I	RITON-SERIES MIDI Implementation	version 1.2 (Ma
33	(Reserved)		+ 	+
34	WAVE SHAPE OFFSET	9D~~63 : -99~~99	* 	11
b0~~6		00~~63 : 0~~99	+ 	+
35 bit7	TYPE	0:Clip, 1:Reso	+ 	13
36	SHAPE AMS	00~~29 : *2-1	+ Alternate Modulation	+
37	INTENSITY	9D~~63 : -99~~99	† 	+ 15
11:Plu	cked String Model		+ Pa	+ ramID = 49
	ATTACK		+ 	
00	LEVEL	00~~63 : 0~~99	 +	00
01	VELOCITY CTRL	9D~~63 : -99~~99	 +	01
02	CURVE UP	00~~63 : 0~~99 	 +	02
03	VELOCITY CTRL		 +	03
04	CURVE DOWN	00~~63 : 0~~99	 +	04
05	VELOCITY CTRL	9D~~63 : -99~~99	 +	05
06	NOISE LEVEL	00~~63 : 0~~99	 +	06
07 	VELOCITY CTRL	9D~~63 : -99~~99 	 +	07
08	STRING PICKING POINT	00~~63 : 0~~99		08
09	POINT AMS	00~~29 : *2-1	+ Alternate Modulation	+
10	INTENSITY	9D~~63 : -99~~99	* 	+ 0A
11	DISPERSION	00~~63 : 0~~99	+ 	0B
12	DISPERSION AMS	00~~29 : *2-1	Alternate Modulation	+
13	INTENSITY	9D~~63 : -99~~99		0D
14	DAMP	00~~63 : 0~~99		0E
15	DAMP KBD TRACK	9D~~63 : -99~~99		OF
16	DAMP AMS	00~~29 : *2-1	Alternate Modulation	10
17	INTENSITY	9D~~63 : -99~~99	<u></u>	11
18	DECAY	00~~63 : 0~~99		12
19	DECAY KBD TRACK	9D~~63 : -99~~99		13
20	RELEASE	00~~63 : 0~~99		14
21	HARMONICS HARMONICS POINT	00~~63 : 0~~99		15
22	÷	00~~63 : 0~~99	 	15 +
22	HARMONICS CTRL 	9D~~63 : -99~~99	 + 	+
	INTENSITI 	·	 	+
24	SW	0:OFF, 1:ON		18
25	LOCATION	00~~63 : 0~~99		19
26	LOCATION AMS	00~~29 : *2-1	Alternate Modulation	1A
27	INTENSITY	9D~~63 : -99~~99		1B
28	LOW EQ FREQUENCY	00~~31 : 0~~49		1C
 29	++ GAIN	EE~~12 : -18~~18 [dB]	+ 	
30	LOW BOOST	00~~63 : 0~~99	+ 	; ; 1E
31~~37	++ (Reserved)	0	+ 0 Fixed	-
12:Bow	+ ved String Model		+Pa	‡ ramID = 4A
	++ BOW SPEED		+ 	+ - i
00	MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation +	00
01	INTENSITY	9D~~63 : -99~~99		01

		KORG II	RITON-SERIES MIDI Implementation	version 1.2 (May.1)
02	AMS 1	00~~29 : *2-1	+ Alternate Modulation	02
03	INTENSITY	9D~~63 : -99~~99	* 	03
04	AMS 2	00~~29 : *2-1	+ Alternate Modulation	04
05	INTENSITY	9D~~63 : -99~~99	* 	05
+ 06	DIFFERENTIAL	0:OFF, 1:ON	+ 	06
07	BOW PRESSURE MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	07
08	INTENSITY	9D~~63 : -99~~99		08
+ 09	AMS	00~~29 : *2-1	Alternate Modulation	09
10	INTENSITY	9D~~63 : -99~~99		0A
+ 11	ROSIN	00~~63 : 0~~99	+ 	0B
12	STRING BOWING POINT	00~~63 : 0~~99		0c
13	POINT AMS	00~~29 : *2-1	Alternate Modulation	0D
+ 14	INTENSITY	9D~~63 : -99~~99	†	OE
15	DAMP	00~~63 : 0~~99	<u>+</u>	OF
16	DAMP KBD TRACK KEY	00~~7F : C-1~~G9		10
17	RAMP LOW	9D~~63 : -99~~99		11
18	RAMP HIGH	9D~~63 : -99~~99		12
19	DAMP AMS	00~~29 : *2-1	Alternate Modulation	13
20	INTENSITY	9D~~63 : -99~~99		14
21	DISPERSION	00~~63 : 0~~99	<u>+</u>	15
22	DISPERSION AMS	00~~29 : *2-1	Alternate Modulation	16
23	INTENSITY	9D~~63 : -99~~99	† 	17
+ 24	REFLECTION	00~~63 : 0~~99	+ 	18
+ 25	REFLECTION AMS	00~~29 : *2-1	+ Alternate Modulation	++ 19
26	INTENSITY	9D~~63 : -99~~99	* 	++ 1A
+ 27	PEAKING EQ FREQUENCY	00~~31 : 0~~49		1B
+ 28	Ω	00~~1D : 0~~29	-	1C
29	GAIN	EE~~12 : -18~~18 [dB]	-	1D
+ 30~~37	(Reserved)		+	

```
*2-1: Alternate Modulation Source for MOSS

00: Off, 01: EG 1, 02: EG 2, 03: EG 3, 04: EG 4, 05: Amp EG, 06: LFO 1, 07: LFO 2, 08: LFO 3, 09: LFO 4, 0A: Portamento, 0B: Note No. Linear, 0C: Note No. Exp., 0D: Note Split High, 0E: Note Split Low, 0F: Velocity Soft, 10: Velocity Med., 11: Velocity Hard, 12: After Touch, 13: JS X, 14: JS +Y:CC#01, 15: JS -Y:CC#02, 16: JS +Y & AT/2, 17: JS -Y & AT/2, 18: Pedal:CC#04, 19: Ribbon:CC#16, 1A: Ribbon +X, 1B: Ribbon -X, 1C: Slider:CC#18, 1D: KnobMod1:#17, 1E: KnobMod2:#19, 1F: KnobMod3:#20, 20: KnobMod4:#21, 21: KnobMod1 [+], 22: KnobMod2[+], 23: KnobMod3 [+], 24: KnobMod4 [+], 25: Damper:#64, 26: SW 1:CC#80, 27: SW 2:CC#81,
```

[TABLE 3] 1 COMBINATION PARAMETERS 1999.05.11

PARA No. : Parameter ID & SUB ID [HEX] for PARAMETER CHANGE. n : Timbre No.(1~~8:T1~~T8)

No.	(bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No
00		COMBI. NAME (Head)		+ 	+
: 15		: COMBI. NAME (Tail)	20~~7F		
	+ INSERT	EFFECT PARAMETERS		+	
 16					+ 0C,00
: 135		FX1~~5 (24Bytes * 5) (120 Bytes)			: 11,??
	¦ MASTER	EFFECT PARAMETERS			
 136	 				12,00
:		FX1~~2 (20Bytes * 2) Return, Chain & EQ (1	6 Rytes)		:
191		(56 Bytes)			15,??
	ARPEGGI	ATOR PARAMETERS		+	· +
192	j	TEMPO	28~~F0 : 40~~240	<u> </u>	09,00
	bit0	SWITCH	0:OFF, 1:ON		09,01
.93	bit1	ARPEGGIATOR RUN A	0:OFF, 1:ON		09,02
	bit2	ARPEGGIATOR RUN B	0:OFF, 1:ON		09,03
	ARPEGGI	ATOR A			
94		PATTERN NO.	00~~EC : 0~~237	 _	OA,00
٥	b0~~1	OCTAVE	00~~03 : 1~~4	<u>+</u>	OA,02
.95	b2~~4	RESOLUTION	0:16T, 1:16, 2:8T, 3:8	+, 4:4T, 5:4	OA,01
96	 	GATE	00~~64 : 0~~100[%], 65	: :Step	OA,03
.97		VELOCITY	01~~7F : 1~~127, 80:Key	y, 81:Step	OA,04
98		SWING	9C~~64 : -100~~100	+ 	OA,05
	+ bit0	SORT	0:OFF, 1:ON	+ 	OA,06
	+ bit1	LATCH	0:OFF, 1:ON	+ 	OA,07
L99	+ bit2	KEY SYNC.	0:OFF, 1:ON	+ 	OA,08
	+ bit3	KEYBOARD	0:OFF, 1:ON	+ 	+ 0A,09
200		TOP KEY	00~~7F : C-1~~G9	+ 	+ 0A,0A
201		BOTTOM KEY	00~~7F : C-1~~G9	+ 	+ 0A,0B
202		TOP VELOCITY	01~~7F : 1~~127	+ 	+ 0A,0C
203	 	BOTTOM VELOCITY	01~~7F : 1~~127	+ 	+ OA,OD
	+ ARPEGGI	+ ATOR B		+	+
 204	 				+ 0B,00
: 213		Same as ARPEGGIATOR A (10 Bytes)	(194~~203)		: 0B,0D
	COMMON	PARAMETERS			
	b0~~3	CATEGORY	00~~0F : 0~~15	+ 	00,00
214	b4~~7	MOSS BUS SELECT	00~~07 : TIMBRE1~~8	+ 	00,0F
 215	 	SCALE TYPE	00~~1A : **1-1	i 	00,01
 216	 	SCALE KEY	00~~0B : C~~B	+ 	00,02
 217		RANDOM INTENSITY	00~~07 : 0~~7	Normal = 0	00,03
	b0~~5	SW 1 ASSIGN TYPE	00~~0C : **1-2	÷ 	00,04
218	 bit6	SW1 TOGGLE/MOMENTARY	0:Toggle, 1:Momentary	+ 	00,08
	 bit7		0:OFF, 1:ON	; ;	00,06
		SW 2 ASSIGN TYPE	00~~0C : **1-2	; ;	00,05
219	+ bit6	SW 2 ASSIGN TITE SW2 TOGGLE/MOMENTARY	0:Toggle, 1:Momentary	 	00,03
	~+ +	1.74 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	o.roggre, renomentary	 +	+

	b0~~6	KNOB 1 ASSIGN TYPE	KORG TRITON-SERIES MIDI Implementation **1-3	Version 1.2 (May.
220 -		REALTIME CONTROLS	0:A, 1:B	00,0E
 221	+	KNOB 2 ASSIGN TYPE	00~~7C: **1-3	00,0E
 222	 	KNOB 3 ASSIGN TYPE	00~~7C: **1-3	00,0C
 223	 	KNOB 4 ASSIGN TYPE	00~~7C: **1-3	00,0D
	+ MBRE 1	PARAMETER		
 224	+	PROGRAM NO.	00~~7F : 00~~127	n,00
224 225	. – – – – . -	PROGRAM BANK	00~~10 : Bank A~~q(d)	n,00
	 + b4		00~~0F: MIDI Channel 1~~16, 10:Global Channel	+
226 -	+	MIDI CHANNEL		n,04
	5~~b7 +	STATUS	0:INT, 1:Off, 2:EXT, 3:EX2	n,03
227 	·+	BANK SELECT MSB	00~~7F: 00~~127 Available only	n,05
228 	· <u>+</u>	BANK SELECT LSB	00~~7F : 00~~127	n,06
229 	 +	VOLUME	00~~7F : 00~~127	n,02
230 	 	PITCH BEND RANGE	E7:PROG, E8~~18 : -24~~24	n,0C
231 	+	TRANSPOSE	E8~~18 : -24~~24	n,0A
232 	+	DETUNE MSB	 FB50~~4B0: -1200~~1200+	n,0B
233	+	DETUNE LSB		·+
234		DELAY START	00~~60,61: **1-5	n,0D
235	i	PAN	00:RND, 01~~7F : L001~~R127	n,01
236	i	SEND 1 LEVEL	00~~7F : 00~~127	n,29
237	<u>i</u>	SEND 2 LEVEL	00~~7F : 00~~127	n,2A
b0~~ 2 DRUMKIT IFX4 Patch		DRUMKIT IFX4 Patch		n,2E
	3~~ 5	DRUMKIT IFX5 Patch	†	
 b	0~~ 2	DRUMKIT IFX1 Patch	0:IFX1, 1:IFX2, 2:IFX3, 3:IFX4, 4:IFX5, 5:L/R	n,2B
- 239 b	3~~ 5	DRUMKIT IFX2 Patch	1	n,2C
- b	6~~ 8	DRUMKIT IFX3 Patch	•	n,2D
 240	+ 	BUS SELECT	0:DKit,1:L/R,2~~6:IFX1~~5,7~~A:1~~4,B:1/2,C:3/4,D:Off	n,28
	bit0	PROGRAM CHANGE FILT	0:DIS, 1:ENA	n,0F
-	 bit1		0:DIS, 1:ENA	n,10
-	 bit2	DAMPER FILTER	0:DIS, 1:ENA	n,11
-	bit3	PORTAMENTO FILTER	0:DIS, 1:ENA	n,12
241 -		JS(X) AS AMS FILTER	0:DIS, 1:ENA	n,13
-	bit5	JS(Y+) FILTER	0:DIS, 1:ENA	n,14
-	bit6	JS(Y-) FILTER JS(Y-) FILTER	0:DIS, 1:ENA	n,15
-	bit7	RIBBON FILTER		+
	+		0:DIS, 1:ENA	n,16
-	bit0 +	ASSIGN KNOB 1 FILTER	0:DIS, 1:ENA	n,17
-	bit1 +	ASSIGN KNOB 2 FILTER	0:DIS, 1:ENA	n,18
-	bit2	ASSIGN KNOB 3 FILTER	0:DIS, 1:ENA	n,19
242 -		ASSIGN KNOB 4 FILTER	0:DIS, 1:ENA	n,1A
-	bit4	ASSIGN SW 1 FILTER	0:DIS, 1:ENA	n,1B
-	bit5	ASSIGN SW 2 FILTER	0:DIS, 1:ENA	n,1C
_	bit6	FOOT PEDAL/SW FILTER	0:DIS, 1:ENA	n,1D
	bit7	OTHER CONTROL FILTER	0:DIS, 1:ENA	n,1E
_	b0,1	FORCE OSC MODE	0:Program, 1:Poly, 2:Mono, 3:Mono Legate	n,07
	b2,3	OSC SELECT	0:BOTH, 1:OSC1, 2:OSC2	n,08
243 -				+

		KOKO I	KITON-SEKTES WILDT Implementation	version 1.2 (way.
bit6	USE PROGRAM'S SCALE	0:DIS, 1:ENA	+	n,0E
244	PORTAMENT TIME	FF:PRG, 00:Off, 01~~7F	: 1~~127	n,09
245	KEY Z TOP	00~~7F : C-1~~G9	<u> </u>	n,1F
246	KEY Z BOTTOM	00~~7F : C-1~~G9	<u> </u>	n,22
b0~~3	KEY Z TOP SLOPE	0~~F: **3-1		n,20
	KEY Z BOTTOM SLOPE	0~~F: **3-1		n,21
248	VEL Z TOP	01~~7F : 1~~127		n,23
249	VEL Z BOTTOM	01~~7F : 1~~127		n,26
b0~~3	VEL Z TOP SLOPE	0 F : 0 120 (Val fa	do alono - Donooluo + 0)	n,24
	VEL Z BOTTOM SLOPE	- 0~~F • 0~~120 (Vel la	de slope = Para value * 8)	n,25
251	MOSS VOICE	00~~06: 0~~6	<u> </u>	n,30
TIMBRE	2~~8 PARAMETERS		+	
252	 Same as TIMBRE 1 (224	1 251)		n,00
: 447	(28 * 7 = 196 Bytes)	1~~251)		n,30

[TABLE 4] GLOBAL PARAMETERS
No.: No. in the GLOBAL DUMP DATA.

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1.0.	. 110.	II THE GLOBAL DUMP DATA	· •	
No.	(bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION
		PARAMETER		
00		MASTER TUNE	CE~~32 : -50~~50[Cent]	
01		KEY TRANSPOSE	F4~~0C : -12~~12	
02		VELOCITY CURVE	0~~7 : 1~~8	
03		AFTER TOUCH CURVE	0~~7 : 1~~8	
	bit0	FOOT SW POLARITY	0:-, 1:+	
	bit1	DAMPER POLARITY	0:-, 1:+	
04	bit2	CONVERT POSITION	0:PreMIDI, 1:PostMIDI	
	bit3	PROG AUTO ARP	0:OFF, 1:ON	
	bit4	COMBI AUTO ARP	0:OFF, 1:ON	
05		FOOT SW ASSIGN	00~~0A : **4-1	
06		FOOT PEDAL ASSIGN	00~~0B : **4-2	
07		(RESERVED)		
08		USER SCALE (Octave)	9D~~63 : -99~~99	
199		(12*16 Bytes)	[Cent]	
200 : 327		USER SCALE (All Notes) (128 Bytes)	9D~~63: -99~~99 [Cent]	
328 : 583		PROG CATEGORY NAME (16*16 Bytes)	20~~7F [ASCII CODE]	
584		COMBI CATEGORY NAME	20~~7F	
: 839		(16*16 Bytes)	[ASCII CODE]	
	AUDIO I	NPUT 1		
840		LEVEL	00~~7F : 00~~127	
841		PAN	00~~7F : L000~~R127	
842		SEND 1 LEVEL	00~~7F : 00~~127	

843	SEND 2 LEVEL	00~~7F : 00~~127	
844	BUS SELECT	00:L/R,01~~05:IFX1~~5,06~~09:1~~4,0A:1/2,0B:3/4,0C:Off	
AUDIO	AUDIO INPUT 2		
845 : 849	Same as AUDIO INPUT :	1 (840~~844)	

1 : FOOT SW:CC#82 2 : PORTAMENTO SW:CC#65 5 : ARPEGGIO SW 6 : PROGRAM UP 9 : SONG PUNCH IN/OUT A : CUE REPEAT CONTROL 3 : SOSTENUTO:CC#66 **4-1 : 0 : OFF 0 : OFF 4 : SOFT:CC#67 8 : SONG START/STOP 7 : PROGRAM DOWN

9 : SONG PUNCH IN/OUT

**4-2 : 0 : OFF 1 : MASTER VOLUME 2 : FOOT PEDAL:CC#04 3 : PORTAMENTO

TIME:CC#05

6 : PAN:CC#10 A : MFX SEND 1:CC#93 4 : VOLUME:CC#07 7 : EXPRESSION:CC#11

B : MFX SEND 2:CC#91

Parameter No. at COMBINATION PLAY mode $n(=0{\sim}{\sim}7) \; : \; \text{Timbre } 1{\sim}{\sim}8$ [TABLE 5]

		n(=0~~7): Timbre $1~~8$	
PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
TIMBRE PARAMETER		+	
BANK/PROGRAM	00~~87F : A000~~g(d)12	3	n,00
PAN	00:RND, 01~~7F : L001~		n,01
VOLUME	00~~7F : 0~~127		n,02
STATUS	0:INT, 1:Off, 2:EXT, 3	: :EX2	n,03
ARPEGGIO PARAMETE	+ ≧R		-+
TEMPO	28~~F0 : 40~~240		08,00
SWITCH	0:OFF, 1:ON		08,01
ARPEGGIATOR RUN A	0:OFF, 1:ON		08,02
ARPEGGIATOR RUN B	0:OFF, 1:ON	 	08,03
GATE	C0~~3F : -64~~63	Arpeggiator gate knob parameter	08,04
VELOCITY	C0~~3F : -64~~63	Arpeggiator velocity knob parameter	08,05
ARPEGGIATOR-A PAR	RAMETER	·	
PATTERN NO.	00~~EC : 0~~236		09,00
RESOLUTION	0:16T, 1:16, 2:8T, 3:8	, 4:4T, 5:4	09,01
OCTAVE	00~~03 : 1~~4	 	09,02
SORT	0:OFF, 1:ON		09,06
LATCH	0:OFF, 1:ON		09,07
KEY SYNC.	0:OFF, 1:ON		09,08
KEYBOARD	0:OFF, 1:ON	 	09,09
ARPEGGIATOR-B PAR	RAMETER	+	
Same as ARPEC	GGIATOR-A PARAMETER		0A,00~~09
SWITCH PARAMETER			
SW 1 ON/OFF	0:OFF, 1:ON		0B,00
SW 2 ON/OFF	0:OFF, 1:ON		0B,01
REALTIME CONTROLS	0:A, 1:B	 	0B,02

Parameter No. at PROGRAM PLAY mode [TABLE 6]

ļ	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
į	PERFORMANCE EDITO	DR		
į	OCTAVE	FD~~03 : -3~~3		00,00
į	PITCH STRETCH	F4~~0C: -12~~12	Only for PCM program	00,01
1	OSC BALANCE	F6~~0A : -10~~10	 	00,02

	.	+	4
AMP LEVEL	F6~~0A: -10~~10		00,03
ATTACK TIME	F6~~0A: -10~~10		00,04
DECAY TIME	F6~~0A: -10~~10		00,05
IFX BALANCE	F6~~0A : -10~~10		00,06
MFX BALANCE	F6~~0A : -10~~10		00,07
ARPEGGIATOR PARAI	METER Under Parame	ter's right side of '/' is Parameter ID	of EXB-MOSS.
TEMPO	28~~F0 : 40~~240		01/03,00
SWITCH	0:OFF, 1:ON		01/03,01
GATE	C0~~3F : -64~~63	Arpeggiator gate knob parameter	01/03,02
VELOCITY	C0~~3F : -64~~63	Arpeggiator velocity knob parameter	01/03,03
PATTERN NO.	00~~EC : 0~~236		02/04,00
RESOLUTION	0:16T, 1:16, 2:8T, 3:8	, 4:4T, 5:4	02/04,01
OCTAVE	00~~03 : 1~~4		02/04,02
SORT	0:OFF, 1:ON		02/04,06
LATCH	0:OFF, 1:ON		02/04,07
KEY SYNC.	0:OFF, 1:ON		02/04,08
KEYBOARD	0:OFF, 1:ON		02/04,09
SWITCH PARAMETER	Under Parame	ter's right side of '/' is Parameter ID	of EXB-MOSS.
SW 1 ON/OFF	0:OFF, 1:ON	 	05/06,00
SW 2 ON/OFF	0:OFF, 1:ON		05/06,01
REALTIME CONTROLS	0:A, 1:B	 	05/06,02
+	t	+	++

[TABLE 7] 1 DRUMKIT PARAMETERS No.: No. in the DRUMKIT DUMP DATA.

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No.: No. in the DRUMKIT DUMP DATA.				
No. (bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
00 : 15	DRUMKIT NAME (Head) : DRUMKIT NAME (Tail)	20~~7F		
KEY=C-1	L PARAMETERS			
16	HIGHER BANK	0:ROM, 1:RAM, ~~???	??? is depend on PCM option.	00/0B
bit0 17	HIGHER START OFFSET	0:OFF, 1:ON		02/0D
bit1	HIGHER REVERSE	0:OFF, 1:ON		03/0E
18	HIGH SAMPLE NO(MSB)	- 00~~19C : 00~~412	Higher Vel's Drumsample	01/0C
19	HIGH SAMPLE NO(LSB)	00 196 00 112	inigher ver a brambampre	01700
20	HIGHER LEVEL	9D~~63 : -99~~99		04/0F
21	HIGHER TRANSPOSE	C0~~3F : -64~~63		05/10
22	HIGHER TUNE	9D~~63 : -99~~99		06/11
23	HIGHER ATTACK LEVEL	C0~~3F : -64~~63		07/12
24	HIGHER DECAY LEVEL	C0~~3F : -64~~63		08/13
25	HIGHER CUTOFF LEVEL	C0~~3F : -64~~63		09/14
26	HIGH RESONANCE LEVEL	C0~~3F : -64~~63		0A/15
27	(RESERVED)			
28 : 39	LOWER Same as HIGHER (16~~2 (12 Bytes)		right side of '/' is PARA No. o	of LOWER.)
40	PAN	00:RND, 01~~7F : L001~~	~R127	16
41	BUS SELECT	00:L/R,01~~05:IFX1~~5,06	~~09:1~~4,0A:1/2,0B:3/4,0C:Off	17
42	SEND 1 LEVEL	00~~7F: 00~~127		18
	·		+	+

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43		SEND 2 LEVEL	00~~7F: 00~~127		19
44		EXCLUSIVE GROUP	00:Off, 01~~7F : 001~~3	127	1A
T	bit0	VOICE ASSIGN	0:OFF, 1:ON		1B
45	bit1	SINGLE TRIGGER	0:OFF, 1:ON		1C
45	bit2	RECEIVE NOTE ON	0:DIS, 1:ENA		1D
	bit3	RECEIVE NOTE OFF	0:DIS, 1:ENA		1E
46		VEL SAMPLE SW	01~~7F : 01~~127	For DRUMSAMPLE SELECT by Vel	1F
47		(RESERVED)			
K	KEY=C#-1~~G9 PARAMETERS				
48 : 4111	48 : Same as KEY=C-1 (16~~47) 4111 (127 * 32 = 4064 Bytes)		00 : 1F		

[TABLE 8] 1 ARPEGGIO PATTERN PARAMETERS No.: No. in the ARPEGGIO PATTERN DUMP DATA.

1999.05.11

+		n the ARPEGGIO PATTERN +		+	+
No.	(bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
00 :	j	ARP. NAME (Head) : ARP. NAME (Tail)	20~~7F		
	b0~~1	OCTAVE MOTION	0:Up, 1:Down, 2:Both, 3	3:Parallel	01
	b2~~3	TYPE	0:As Played,1:As Played	d(Fill),2:Running Up,3:Up&Down	00
16	bit4	TONE MODE	0:Normal, 1:Fixed Note		03
	bit5	FIXED NOTE MODE	0:As Played, 1:All Tone	es	04
17		LENGTH	01~~30 : 1~~48		02
18		(RESERVED)			
19		(RESERVED)			
20		TONE 00 NOTE NO	00~~7F : C-1~~G9		05
21 : 31		TONE 01~~11 NOTE NO Same as TONE 00 NOTE (11 Bytes)	NO		05 : 05
; s	TEP 01	PARAMETERS		i	;
+ 32		PITCH OFFSET	D0~~30 : -48~~48	+ 	06
+ 33			0:Off, 01~~64 : 1~~100		07
+ 34		VELOCITY	01~~7F : 1~~127, 80:Key	 v	08
+ 35		FLAM	9D~~63 : -99~~99		09
+ 36	b0~~3	TONE9~~12	0:DIS, 1:ENA	 	0A
+ 37	b0~~7	TONE1~~8	0:DIS, 1:ENA	+	: 15
ST	EP 02~~			+	
38 : 319		Same as STEP 01 (32~~ (6 * 47 = 282 Bytes)	37)		06 : 15
-		ARPEGGIATOR SELECT	0:A, 1:B	It's not dump data.	16

[TABLE 9] Arpegiator Parameter No. at GLOBAL

1		1	
PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
PATTERN NO.	00~~EC : 0~~236		68,00
RESOLUTION	0:16T, 1:16, 2:8T, 3:8	, 4:4T, 5:4	68,01
OCTAVE	00~~03 : 1~~4		68,02
SORT	0:OFF, 1:ON		68,06
LATCH	0:OFF, 1:ON	<u> </u>	68,07
KEY SYNC.	0:OFF, 1:ON	 	+ 68,08

+	+	+	r+
KEYBOARD	0:OFF, 1:ON	!	68,09

•	·	•				
[TABLE 10]	SEQUENCE DATA	A PARAMETERS 1999.05.12				
00	EVENT DATA START ADRESS(MSB)					
03	: (4 Bytes) EVENT DATA START ADRESS(LSB)					
04	EVENT DATA FREE AREA START ADRESS(MSB) : (4 Bytes)					
07	EVENT DATA FREE AREA	START ADRESS(LSB)				
08	SONG 00 EVENT DATA ADRESS(MSB)					
11	: (4 Bytes) SONG 00 EVENT DATA ADRESS(LSB)					
12 : 807	SONG 001~~199, EVENT DATA ADRESS Same as SONG 00 EVENT (08~~11) (4 * 199 = 796 Bytes)					
808	CURRENT SONG NO.	00~~C7 : 00~~199				
809	CURRENT PAT NO.	00~~95 : 00~~149				
810	CURRENT FX SONG NO.					
811	VALID SONG	00~~C8 : 00~~200				
812	VALID SONG NO.					
1011	(200 Bytes)	00~~C7 : 00~~199				
[TABLE 11] 1 CUE LIST DATA 1999.05.1:						
	CUE LIST					
00	CUE LIST NAME (Head)	20~~7F				
15	CUE LIST NAME (Tail)					
16	TEMPO	28~~F0 : 40~~240				
17	TEMPO MODE	0:AUTO, 1:MANUAL				
18	(RESERVED)					
19	(RESERVED)					
STEP 01						
20	SONG NO.	0~~C7 : S000~~S199 FE : Continue to step01 FF : End				
	REPEAT	00~~3F:1~~64, 7F:FS				
21+ bit7	Load FX	0:OFF, 1:ON				
STEP 02						
22 : 219	Same as STEP 01 (20~~ (2 * 99 = 198 Bytes)					
[TABLE 12]	1 SONG SEQUEN	NCE DATA 1999.05.1				
S	SONG +	+				
00	SONG NAME (Head)	20~~7F				
15	SONG NAME (Tail)	 				
INSERT	INSERT EFFECT PARAMETERS					
16 : 135	FX1~~5 (24Bytes * 5) (120 Bytes)					
MASTER	EFFECT PARAMETERS					
136						
191	: Return, Chain & EQ (16 Bytes)					
ARPEGGIATOR PARAMETERS						

		KORG TR		
192 : 213	Same as COMBI.ARPEGGIATOR (192~~213) (22 Bytes)			
+	PARAMETERS			
+ 214	+			
: 223	Same as COMBI.COMMON (9 Bytes)	PARAMETER (214~~223)		
TRACK 1	~~16 PARAMETERS	 		
224		+		
: 671 +	Same as TIMBRE 1 (224 (28 * 16 = 448 Bytes	Same as TIMBRE 1 (224~~251) (28 * 16 = 448 Bytes)		
SONG CO	NTROL DATA			
672	RPPR ON/OFF	0:OFF, 1:ON		
673	TRACK SELECT	0~~F,10:TRK01~~15,MASTER		
674	(RESERVED)			
+ 675	(RESERVED)	++ 		
+ 676	+	+ **12-1		
+ 677	+	+		
÷ 678	METRONOME LEVEL			
+ 679	+			
+	+	7:1/2,8:3/4		
680	METRONOME PRECOUNT	00~~02: 0~~2		
681	TEMPO MODE	0:AUTO, 1:MANUAL, 2:REC		
682	TRACK1~~8 MODE	0:PLAY, 1:MUTE		
683	TRACK9~~16 MODE	0:PLAY, 1:MUTE		
684	TRACK 1 NAME (Head)	20~~7F		
: 699	TRACK 1 NAME (Tail)			
700 : 939	TRACK 2~~16 NAME Same as TRACK 1 NAME (684~~699) (16 * 15 = 240 Bytes)			
+ 940	+	, ++ 		
943	: (4 Bytes) TR1 EVENT ADRS (LSB)			
944	TRACK 2~~16, MASTER			
1007	Same as TRACK 1 EVENT (940~~943) (4 * 16 = 64 Bytes)			
+	(RESERVED)	++ 		
: 1011	: (4 Bytes)			
+ PATTERN	+ r 0	÷		
1012	+	++ 		
:	:	20~~7F [ASCII CODE]		
1027	NAME (Tail)	[ASCII CODE]		
1028	LENGTH	+		
1029 	+ METER	**12-1		
1030	(RESERVED)	++ 		
1031	(RESERVED)	+ 		
1032	EVENT DATA ADRS(MSB)	+		
1035	: (4 Bytes) EVENT DATA ADRS(LSB)			
1036	PATTERN 1~~99 Same as PATTERN 0 (1012~~1035)			
3411	(24 * 99 = 2376 Bytes)			
3412	TRACK1~~8 INT	0:OFF, 1:ON		
3413	TRACK9~~16 INT	0:OFF, 1:ON		
3414	TRACK1~~8 EXT	0:OFF, 1:ON		

3415	TRACK9~~16 EXT	+		
TRACK 1 PLAY LOOP				
bit7	ASSIGN	0:OFF, 1:ON		
	START MEASURE (MSB)	 + 01~~3E7 : 001~~999		
3417	START MEASURE (LSB)	U1~~3E/ : UU1~~999		
3418	END MEASURE (MSB)	+ 01~~3E7 : 001~~999		
3419	END MEASURE (LSB)			
3420 : 3479	TRACK 2~~16 Same as TRACK 1 PLAY LOOP (3416~~3419) (4 * 15 = 60 Bytes)			
KEY=C-1 RPPR				
3480	PATTERN	00~~63 : U00~~U99 00~~95 : P00~~P149		
b0~~3	TRACK	00~~0F : 01~~16		
b4~~7	SYNC	0:Off, 1:Beat, 2:Measure, 3:SEQ		
b0~~3	MODE	0:Once, 1:Manual, 2:Endless		
3482+ b4~~7	STATUS	0:NOTE,1:PAT,2:SHUTDOWN		
3483	SHIFT NOTE	F4~~11 : -12~~12		
3484 : 3991	KEY=C#-1~~G9 RPPR Same as KEY=C-1 RPPR (3480~~3483) (4 * 127 = 508 Bytes)			

**12-1 : 10~~1F : 1/4~~ 16/4 20~~2F : 1/8~~ 16/8 30~~3F : 1/16~~16/16

-Revision History-1.0 Apr. 2.'99 1.1 Nov.30.'99 1.2 May.17.'00 'SYSTEM EXCLUSIVE'. Initial Release.
Delete an extra reserved byte in 'COMBINATION PARAMETER DUMP'.
Add 'CHANNEL MESSAGES', 'SYSTEM COMMON MESSAGES', 'SYSTEM REALTIME MESSAGES' and