Consult your local Korg dealer for more infomation on MIDI System Exclusive implementation.

#### 1.TRANSMITTED DATA

### 1-1 CHANNEL MESSAGES

[H] :Hex, [D] :Decimal

Statu  [Hex]		+   Th   [H]	ird [D]	Description (	Transmitted by)	++   ENA
;   8n	-+	├   40	(64)		Sequence/Arpeggiator data )	;;   A
9n	kk (kk)	vv	(vv)		Sequence/Arpeggiator data )	A
An	kk (kk)	vv	(vv)	Poly Key Pressure (	Sequence data )	T,O
Bn	00 (00)	mm	( mm )	Bank Select(MSB)	BANK keys, Prog/Combi change ) *1	PB
Bn	01 (01)	vv	(vv)	` '	Knob-B = MIDI CC#01 )	C
Bn	02 (02)	vv	(vv)	Modulation2 (	Knob-B = MIDI CC#01 )	C
Bn	04 (04)	VV	' '	Foot Pedal (		
Bn	' '		(vv)		( Knob-B = MIDI CC#04 )	C
!	05 (05)	VV	(vv)		( Knob-B = Porta.Time, M Chg )	!!!
Bn	06 (06)	vv	(vv)		ARP ON/OFF, GATE, VELOCITY ) *2	C
Bn	07 (07)	vv	(vv)	Volume (	Knob-B = Volume, M/C Chg )	C
Bn	08 (08)	vv	(vv)	_	Knob-B = IFX Pan, M Chg )	C
Bn	0A (10)	vv	(vv)		Knob-B = Pan, M Chg)	C
Bn	0B (11)	vv	(vv)		( Knob-B = Expression )	C
Bn	OC (12)	VV	(vv)		( Knob-B = FX Ctrl 1 )	C
Bn	0D (13)	vv	(vv)	Effect Control 2 (	( Knob-B = FX Ctrl 2 )	C
Bn	10 (16)	vv	(vv)	Multi Purpose Ctrl1 (	( Knob-B = MIDI CC#16 )	C
Bn	11 (17)	vv	(vv)	Multi Purpose Ctrl2 (	Knob-B = Knob Mod.1 )	C
Bn	12 (18)	vv	(vv)	Multi Purpose Ctrl3 (	Knob-B = MIDI CC#18 )	C
Bn	13 (19)	vv	(vv)	Multi Purpose Ctrl4 (	Knob-B = Knob Mod.2 )	c
Bn	14 (20)	vv	(vv)	(	Knob-B = Knob Mod.3)	l c l
Bn	15 (21)	vv	(vv)	ì	Knob-B = Knob Mod.4 )	l c l
Bn	20 (32)	bb	(bb)	Bank Select(LSB)	BANK keys, Prog/Combi change ) *1	PB
Bn	40 (64)	VV	(vv)	Hold1	Knob-B = MIDI CC#64 )	C
Bn	41 (65)	00/7F	(00/127)		SW1/SW2 = Porta.SW, M Chg )	C
Bn	42 (66)					C
		VV	(vv)	Sostenuto OII/On (   Soft Pedal (	(Knob-B = MIDI CC#66)	C
Bn	43 (67)	VV	(vv)		(Knob-B = MIDI CC#67)	
Bn	46 (70)	vv	(vv)		(Knob-B = F/A Sus.)	C
Bn	47 (71)	vv	(vv)		Knob-2A, $Knob-B = Flt Reso.$ )	C
Bn	48 (72)	vv	(vv)	Sound Controller 3 (		C
Bn	49 (73)	vv	(vv)		(Knob-B = F/A Attack)	C
Bn	4A (74)	vv	(vv)		Knob-1A, Knob-B = Flt Cutoff )	C
Bn	4B (75)	vv	(vv)		Knob-B = F/A Decay )	C
Bn	4C (76)	vv	(vv)		( Knob-B = P LF01 Spd )	C
Bn	4D (77)	vv	(vv)		(Knob-B = P LFO1 Dep )	C
Bn	4E (78)	vv	(vv)	Sound Controller 9 (	( Knob-B = P LFO1 Dly )	C
Bn	4F (79)	vv	(vv)	Sound Controller 10 (	(Knob-3A, Knob-B = Flt EG Int.)	C
Bn	50 (80)	00/7F	(00/127)	Multi Purpose Ctrl5 (	( SW1 = SW1 Mod. )	C
Bn	51 (81)	00/7F	(00/127)	Multi Purpose Ctrl6 (	SW2 = SW2 Mod.	C
Bn	52 (82)	vv	(vv)	Multi Purpose Ctrl7 (	Knob-B = Foot SW )	C
Bn	53 (83)	vv	(vv)	Multi Purpose Ctrl8 (	Knob-B = MIDI CC#83 )	C
Bn	5B (91)	vv	(vv)	Effect 1 Depth (	Knob-B = MFX Send2, M Chg )	c
Bg	5C (92)	00/7F	(00/127)		( All Insert FX Off/On )	C
Bn	5D (93)	VV	(vv)		( Knob-B = MFX Send1, M Chg )	C
Bq	5E (94)	00/7F	(00/127)		Master FX1 Off/On )	C
Bg	5F (95)	00/7F	(00/127)	_	Master FX2 Off/On )	C
Bn	cc (cc)	VV	(VV)		Knob-B = MIDI CC#00-95 )	C
Bn	62 (98)	1			ARP ON/OFF, GATE, VELOCITY ) *2	C
Bn	, , ,	ss tt	(ss)			C
1	63 (99)		(tt)	NRPN Param No.(MSB) (	,,, ,, ,	
Bn	cc (cc)	vv	(vv)		Sequence data)	Q
Cn	bb (bb)				Prog/Combi change ) *1	P
Dn	vv (vv)				Sequence data)	T
En	bb (bb)	bb	(bb)	Bender Change (	Sequence data)	C

```
M Chg : Transmitted when change a Multi No. (Status = EXT,EX2,BTH)
C/M Chg : Transmitted when change a Combination or Multi No. (Status = EXT,EX2,BTH)
Sequence data: Pattern, Audition Riff and Demo data.
```

: MIDI Channel No. (0 - 15) ..... Usually Global Channel.
When in Combination/Multi mode, each timbre's/track's channel.(Status = EXT,EX2 or BTH)

: Always Global Channel No. (0 - 15)

kk = 00 - 127

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

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

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

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

 ${\tt T}$  : Enabled when Enable After Touch in Global mode is checked

Q : Enabled when Pattern is playing(transmit), recording(receive)

```
*1 : Program
                                    Combination
                                                        MIDI Out[Hex] (Bank Map is KORG) (Bank Map is GM(2))
      BankINT-A 0 - 127 : BankINT-A 000 - 127 : mm,bb,pp
INT-B 0 - 127 : INT-B 000 - 127 :
                                                                                    00 - 7F = 3F,00,
00 - 7F 3F,01,
                                                                                                          00 - 7F
                                                                      = 00,00,
                                                                                                 3F,01,
                                                                                                           00 - 7F
                                                                          00,01,
           INT-C 0 - 127 :
                                   INT-C 000 - 127 :
                                                                                     00 - 7F
                                                                                                 3F,02,
                                                                                                           00 - 7F
                                                                          00,02,
           INT-D 0 - 127 :
INT-E 0 - 127 :
                                                                          00,03,
                                                                                     00 - 7F
00 - 7F
                                   INT-D 000 - 127 :
                                                                                                 3F,03,
3F,04,
                                                                                                           00 - 7F
                                  INT-E 000 - 127
                                                                                                           00 - 7F
                                                                                                 3F,05,
79,00,
           INT-F 0 - 127
                                                                                     00 - 7F
                                                                          00,05,
                                                                                                           00 - 7F
               G 1 - 128
                                                                                    00 - 7F
                                                                                                           00 - 7F
                                                                          79,00,
       g(1)-(9) 1 - 128

g(d) 1 - 128
                                                                          79,01-09,00 - 7F
                                                                                                 79,01-09,00 - 7F
                                                                          78,00, 00 - 7F
                                                                                                 78,00, 00 - 7F
           EXB-A 0 - 127 : BankEXB-A 000 - 127 :
                                                                          00,08, \quad 00 - 7F
                                                                                                 3F,08, 00 - 7F
```

```
KORG TRITON-Rack MIDI Implementation
                                                                                                                              Revision 1.3 (Jul.5.'01)
             EXB-B 0 - 127 :
                                        EXB-B 000 - 127 :
EXB-C 000 - 127 :
                                                                                       00,09, 00 - 7F

      EXB-B
      0
      -
      127
      :
      EXB-B
      000
      -
      127
      :

      EXB-C
      0
      -
      127
      :
      EXB-C
      000
      -
      127
      :

      EXB-D
      0
      -
      127
      :
      EXB-D
      000
      -
      127
      :

      EXB-F
      0
      -
      127
      :
      EXB-F
      000
      -
      127
      :

      EXB-G
      0
      -
      127
      :
      EXB-G
      000
      -
      127
      :

      EXB-H
      0
      -
      127
      :
      EXB-H
      000
      -
      127
      :

                                                                                                                 3F,09, 00 - 7F
                                                                                       00,0A,
                                                                                                   00 - 7F
                                                                                                                 3F,0A,
                                                                                                                              00 - 7F
                                                                                       00,0B,
                                                                                                   00 - 7F
                                                                                                                 3F,0B,
                                                                                                                              00 - 7F
                                                                                       00,0C,
                                                                                                   00 - 7F
                                                                                                                              00 - 7F
                                                                                                                 3F,0C,
                                                                                                   00 - 7F
                                                                                                                              00 - 7F
                                                                                       00,0D,
                                                                                                                 3F,0D,
                                                                                                   00 - 7F
00 - 7F
                                                                                       00,0E,
                                                                                                                 3F,0E,
                                                                                                                              00 - 7F
                                                                                                                              00 - 7F
                                                                                       00,0F,
                                                                                                                 3F,0F,
                    F : [ Bn,63,00,Bn,62,02,Bn,06,mm] mm = 00(Off),7F(On) (REALTIME CONTROLS C Knob2) : [ Bn,63,00,Bn,62,0A,Bn,06,mm] mm = 00-7F
*2 : ARP ON/OFF
      ARP-GATE
      ARP-VELOCITY (REALTIME CONTROLS C Knob3) : [ Bn,63,00,Bn,62,0B,Bn,06,mm] mm = 00-7F
      When in Program/Combination mode, Global channel. When in Multi mode, Control Track's channel.
1-2 SYSTEM COMMON MESSAGES
                                                                                                 [H] :Hex, [D] :Decimal
    | Status | Second | Third | Description (Transmitted when ) | [Hex] | [H] [D] |
              ______
              ss (ss) | Song Select
                                                                                      (Multi is selected)
      | ss : Multi(0-127) No.
      Transmits Song Select message when in Multi mode (Internal Clock)
1-3 SYSTEM REALTIME MESSAGES
  |Status[Hex] | Description (Transmitted when ...)
   Timing Clock ( Always in Prog/Combi/Multi mode ) *
Start ( START Pattern in Multi mode ) *
Stop ( STOP Pattern in Multi mode ) *
Active Sensing ( Always )
      F8
      FΑ
      FC
      FE
       * Transmits these messages 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 )
[ F0,7E,0g,06,02,42,50,00,1C,00,nn,00,vv,00,F7 ] 3rd byte g: Global Channel
6th byte 42: KORG ID
                                                                                7th byte 50 : TRITON series ID
                                                                                9th byte : TRITON-Rack member code
                                                                                     System V1.0.0 \sim V1.1.0 = 00
                                                                               System V1.1.1~ = 1C

11th byte nn : System No. ( 01 - )

13th byte vv : System Version ( 01 - )
1-4-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGES ( REALTIME )
          Master Volume
                                                                               3rd byte g : Global Channel
6th byte vv : Value(LSB)
          [ F0,7F,0g,04,01,vv,mm,F7 ]
                                                                               7th byte mm : Value(MSB)
                                                                                            mm, vv = 00,00 - 7F,7F : Min - Max
```

### 2.RECOGNIZED RECEIVE DATA

-1 CHANNEL MESSAGES	[H]:Hex,[D]:Decim	nal
Status   Second   Third   [Hex]   [H]   [D]   [H]   [D]		ENA
8n	Note Off Note On (vv)=1-127 Poly Key Pressure (as AMS) Bank Select(MSB) (for Prog/Combi change) *1 Modulation1 (as AMS & FX Dmod Src =JS+Y) Modulation2 (as AMS & FX Dmod Src =JS-Y) Foot Pedal (as AMS & FX Dmod Src =Pedal) Portamento Time Data Entry (MSB) (for RPC edit) Volume Balance Control (for Post IFX Panpot control) *2 Panpot Expression Effect Control 1 (as FX Dmod Src =FX1) Effect Control 2 (as FX Dmod Src =FX2) Multi Purpose Ctrl1 (as AMS & FX Dmod Src =Ribbon) Multi Purpose Ctrl2 (as AMS & FX Dmod Src =Ribbon) Multi Purpose Ctrl3 (as AMS & FX Dmod Src =Slider) Multi Purpose Ctrl4 (as AMS & FX Dmod Src =Slider) Multi Purpose Ctrl4 (as AMS & FX Dmod Src =Slider)	A A A T, Q PB C C C C C C C C C C C C C C C C C C
Bn   15 (21)  vv (v	( as AMS & FX Dmod Src =KnobM4 )	C

```
Bank Select(LSB) ( for Prog / Combi change )
Data Entry (LSB) ( for RPC edit )
Bn
         20 (32)
                                      (bb)
Bn
         26
             (38)
                          vv
                                      (vv)
                                                       Hold1
                                                                                     ( as Damper)
             (64)
                                      (vv)
                     <=3F/>=40 (<=63/>=64)
                                                       Portamento Off/On
                                                                                                                                              С
Bn
         41
              (65)
                                                       Sostenuto Off/On
                     <=3F/>=40(<=63/>=64)
                                                                                                                                              С
Bn
         42
             (66)
                                                       Soft Pedal
                                                                                                                                              С
Bn
         43
             (67)
                                      (vv)
                                                      Soft Pedal
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 )
Sound Controller 8 ( for LFO1 Pitch Depth control )
Sound Controller 9 ( for LFO1 Delay control )
Sound Controller 10 ( for Filter EG Intencity ctrl )
             (70)
Bn
                                      (vv)
         47
              (71)
                                       (vv)
                                                                                                                                              С
Bn
                          vv
                                     (vv)
(vv)
(vv)
         48
             (72)
Bn
                          VV
         49
              (73)
Bn
                          vv
         4A (74)
                                                                                                                                              С
Bn
                          vv
              (75)
                                      (vv)
                                                                                                                                              С
Bn
         4B
                          vv
         4C (76)
                                      (vv)
Bn
                          VV
             (77)
                                      (vv)
Bn
         4D
                          vν
                                                                                                                                              С
                                    (vv)
Bn
         4E (78)
                          vv
                                                                                                                                              С
Bn
         4F
             (79)
                          vv
                                     (vv)
                                                       Sound Controller 10 ( for Filter EG Intencity ctrl )
                                                                                                                                              С
                          vv
                                     (vv)
                                                      Multi Purpose Ctrl5 ( as AMS & FX Dmod Src =SW 1 )
Multi Purpose Ctrl6 ( as AMS & FX Dmod Src =SW 2 )
                                                                                                                                              C
C
Вn
         50 (80)
Bn
         51 (81)
                          7777
                                     (vv)
Bn
         52 (82)
                          VV
                                     (vv)
                                                       Multi Purpose Ctrl7 ( as AMS & FX Dmod Src =FootSW )
                                                                                                                                              С
                         vv
                                      (vv)
(vv)
Bn
         53 (83)
                                                       Multi Purpose Ctrl8 ( as AMS & FX Dmod Src )
                                                                                                                                              С
                                                      Effect 1 Depth (for Send 2 Level control)

Effect 2 Depth (for All Insert FX Off/On)

Effect 3 Depth (for Send 1 Level control)

Effect 4 Depth (for Master FX1 Off/On)

Effect 5 Depth (for Master FX2 Off/On)

Data Increment (for RPC edit)

Data Decrement (for RPC edit)

NRPN Param No.(LSB) (for NRPN select)
                                                                                                                                              С
Bn
         5B (91)
                         VV
                       00/!=00 (00/!=000)
Вg
         5C (92)
                                                                                                                                              C
Bn
         5D (93)
                         VV
                                      (vv)
                                    (00/!=000)
                       00/!=00
Bg
         5E (94)
Вg
         5F (95)
                       00/! = 00
                                   (00/!=000)
                                                                                                                                              0000000
         60 (96)
                        0.0
Bn
                                      (00)
         61 (97)
                                      (00)
                         0.0
Bn
                                                       NRPN Param No.(LSB) ( for NRPN select )
         62 (98)
Bn
                         SS
                                      (ss)
                                     (tt)
(0r)
                                                                                                                                        *3
Bn
         63 (99)
                        tt
Or
                                                       NRPN Param No.(MSB) ( for NRPN select )
                                                      RPN Param No. (LSB) ( for RPN select )
RPN Param No. (MSB) ( for RPN select )
                                                                                                                                        *4
         64(100)
Bn
                                     (00)
                                                                                                                                        *4
         65(101)
                        0.0
Bn
                                                                                     ( for Pattern recording (cc)=0-101)
                                                      Control data (
All Sound Off
Reset All Controllers
                                                       Control data
Bn
         cc (cc)
                         VV
                                      (vv)
                                                                                                                                              C,0
                                     (00)
Bn
         78(120)
                        00
         79(121)
                          0.0
                                      (00)
                                                                                                                                              C
Bn
                                                       Local Control Off/On
                       00/7F
                                (00/127)
         79(121)
Bn
                                                                                                                                              Α
                       00
                                  (00)
                                                      All Notes Off
Omni Mode Off
         7B(123)
Bn
                                                                                                                                              Α
Bn
         7C(124)
                          00
                                      (00)
                                                                                     ( as All Notes Off )
                                                                                                                                              Α
                                                       Omni Mode On
         7D(125)
                         0.0
                                      (00)
                                                                                     ( as All Notes Off )
Bn
                                                                                                                                              Α
                                                      Mono Mode On
Poly mode On
                                      (<=00)
                                                                                     ( as All Notes Off )
         7E(126)
                       <=10
Bn
                                                                                                                                              Α
                                      (00)
                                                                                     ( as All Notes Off )
         7F(127)
                        00
Bn
                                                                                                                                              Α
                                      --
                         --
                                                      Program Change
                                                                                     ( for Prog/Combi change )
                                                                                                                                       *1
                                                                                                                                              Р
Cn
         (qq) qq
                                                                                  ( as After Touch )
                                                       Channel Pressure
         vv (vv)
                                                                                                                                              Т
Dn
                                                    Bender Change
        bb (bb)
                        bb
                                     (bb)
                                                                                                                                              C
En
```

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

MIDI Channel No. (0 - 15) ...... Usually Global Channel.
 When in Combination/Multi 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
                               Program
00 - 7F : Bank INT-A
       mm,bb,pp = 00,00,
                                                            000 - 127 : Bank INT-A 000 - 127
                               00 - 7F :
00 - 7F :
                                                            000 - 127 : INT-B 000 - 127
000 - 127 : INT-C 000 - 127
                    00,01,
                                                 INT-B
                                                                                INT-C 000 - 127
                    00,02,
                                                 INT-C
                              00 - 7F :
00 - 7F :
                                                                                INT-D 000 - 127
                    00,03,
                                                 INT-D
                                                            000 - 127 :
                                                         000 - 127 :
000 - 127 :
000 - 127
                    00,04,
                                                 INT-E
                                                                               INT-E 000 - 127
                              00 - 7F :
                    00,05,
                                                INT-F
                    00,08,
                               00 - 7F:
                                                 EXB-A
                                                            000 - 127 :
                                                                                EXB-A 000 - 127
                                                            000 - 127 : EXB-A 000 - 127
000 - 127 : EXB-B 000 - 127
000 - 127 : EXB-C 000 - 127
                                                 EXB-B
EXB-C
EXB-D
                              00 - 7F :
                    00,09,
                               00 - 7F :
                    00,0A,
                               00 - 7F :
                                                            000 - 127 :
                                                                                EXB-D 000 - 127
                    00,0B,
                                                            000 - 127 :
                    00,0C,
                               00 - 7F:
                                                 EXB-E
                                                                                EXB-E 000 - 127
                                                            000 - 127 :
000 - 127 :
                               00 - 7F :
00 - 7F :
                    00,0D,
                                                 EXB-F
                                                                                EXB-F 000 - 127
EXB-G 000 - 127
                    00,0E,
                                                 EXB-G
                               00 - 7F :
                                                            000 - 127 :
                                                                                EXB-H 000 - 127
                    00,0F,
                                                EXB-H
                    79,00,
                              00 - 7F :
                                                     G
                                                            001 - 128
                    79,01-09,00 - 7F : 78,00, 00 - 7F :
                                                g(1)-g(9) 001 - 128
                                                g(d) 001 - 128
                    38,00, \quad 00 - 7F : \quad G \quad 001 - 128 \\ 3E,00, \quad 00 - 7F : \quad g(d) \quad 001 - 128
       When Bank Map in Global mode is GM(2);
       MIDI In [Hex]
                               Program
00 - 7F : Bank INT-A
                                                                           Combination
       mm,bb,pp = 3\bar{F},00,
                                                            000 - 127 : Bank INT-A 000 - 127
                                                                           INT-B 000 - 127
                    3F,01,
3F,02,
                               00 - 7F :
                                                            000 - 127 :
                                                 INT-B
                               00 - 7F :
                                                            000 - 127 :
                                                                                INT-C 000 - 127
                                                 INT-C
                                                                            INT-D 000 - 127
INT-E 000 - 127
                    3F,03,
3F,04,
                               00 - 7F :
                                                 INT-D
                                                            000 - 127 :
                               00 - 7F :
                                                            000 - 127 :
                                                 INT-E
                    3F.05.
                               00 - 7F :
                                                 TNT-F
                                                            000 - 127
                    3F,08,
                               00 - 7F :
                                                 EXB-A
                                                            000 - 127 :
                                                                                EXB-A 000 - 127
                                                 EXB-A
EXB-B
EXB-C
EXB-D
                    3F,09,
                               00 - 7F :
                                                            000 - 127 :
                                                                                EXB-B 000 - 127
                    3F,0A,
3F,0B,
                               00 - 7F :
                                                            000 - 127 :
                                                                                 EXB-C 000 - 127
```

EXB-D

000 - 127 :

EXB-D 000 - 127

```
KORG TRITON-Rack MIDI Implementation
                                                                                     EXB-E 000 - 127
EXB-F 000 - 127
                                                              000 - 127 :
                            00 - 7F :
                                                 EXB-E
                3F,0C,
                            00 - 7F :
                                                              000 - 127 :
                 3F,0D,
                                                 EXB-F
                3F,0E,
                            00 - 7F :
                                                              000 - 127 :
                                                                                     EXB-G 000 - 127
                                                 EXB-G
                 3F, OF,
                            00 - 7F :
                                                              000 - 127 :
                                                                                     EXB-H 000 - 127
                                                 EXB-H
                79,00, 00 - 7F : 79,01-09,00 - 7F : 78,00, 00 - 7F :
                                                              001 - 128
                                             g(1)-g(9) 001 - 128
                                                 g(d) 001 - 128
                00,00, 00 - 7F : 38,00, 00 - 7F : 3E,00, 00 - 7F : 3F,7F, 00 - 7F :
                                                     G 001 - 128
G 001 - 128
g(d) 001 - 128
          3F,7F,
(XG) 00,01 -
                                                       Mute (KORG MUTE)
                                                      Assign correspond program in G, g(1) - g(9)
Assign correspond program in G, g(1) - g(9)
          (GS) 01,00 -
When in Combination/Multi mode, each IFX's channel.
```

\*2 : When in Program/Sampling mode, Global channel

\*3 : 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 Multi mode, Control 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 = 01,09 : 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 = 01,64 : 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 = 14,kk : Drum Volume *
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.

```
*4 : r = 0 : Pitch Bend Sensitivity ( Bend Range )
       = 1 : Fine Tune
= 2 : Coarse Tune
                                      ( Detune )
                                      ( Transpose )
```

For drum program, both of Fine Tune and Coase Tune affect to Detune.

Data Entry LSB value has no effect for Pitch Bend Sensitivity and Coarse Tune.

### 2-2 SYSTEM COMMON MESSAGES

	M COMMON N			[H]:Hex,[D]:Decimal
Status	Second [H] [D]	Third	i [D]	Description ( Use for )
F2	ss (ss)	tt	(tt)	Song Position Pointer ( Arpeggiator Control ) ss: Least significant [LSB] tt: Most significant [MSB]
F3	ss (ss)			Song Select (Multi select) ss: Multi(0-127)

Receive Song Position Pointer when in Program/Combination/Multi mode(External Clock) Receive Song Select when in Multi mode (External Clock)

### 2-3 SYSTEM REALTIME MESSAGES

Status[Hex]	Description ( Use for )
F8 FA FB FC FE	Timing Clock ( Tempo, AMS. & FX Dmod Src ) * Start ( Arpeggiator Control ) * Continue ( Arpeggiator Control ) * Stop ( Arpeggiator Control ) * Active Sensing ( MIDI Connect check )

<sup>\*</sup> Receive when MIDI Clock in Global mode is External.

```
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 Multi mode )
        [ F0,7E,nn,09,01,F7 ]
                                                        3rd byte nn : Channel = 0 - F : Global Channel
                                                                                  = 7F : Any Channel
2-4-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGES ( REALTIME )
        Master Volume
                                                        3rd byte g : Global Channel
6th byte vv : Value(LSB)
        [ F0,7F,0g,04,01,vv,mm,F7 ]
                                                        7th byte mm : Value(MSB)
                                                                   mm, vv = 00,00 - 7F,7F : Min - Max
        Master Balance
                                                        3rd byte g : Global Channel
6th byte vv : Value(LSB)
        [ F0,7F,0g,04,02,vv,mm,F7 ]
                                                        7th byte mm : Value(MSB)
                                                                   mm, vv = 00,00:Left, 40,00:Center, 7F,7F:Right
        Master Fine Tune ( Control Master Tune(cent) in Global )
                                                        3rd byte g: Global Channel
6th byte vv: Value(LSB)
        [ F0,7F,0g,04,03,vv,mm,F7 ]
                                                        7th byte mm : Value(MSB)
                                                                  mm, vv = 20,00:-50, 40,00:+00, 60,00:+50
        Master Coarse Tune ( Control Transpose (chromatic step) in Global )
                                                        3rd byte g: Global Channel
6th byte vv: Value(LSB)
        [ F0,7F,0g,04,04,vv,mm,F7 ]
                                                        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

```
+-----
      |Func | Description
            MODE REGUEST
       12
            CURRENT PROGRAM PARAMETER DUMP REQUEST
       10
            PROGRAM PARAMETER DUMP REQUEST
       1C
            CURRENT COMBINATION PARAMETER DUMP REQUEST
       19
            COMBINATION PARAMETER DUMP REQUEST
       1D
            MULTI DATA DUMP REQUEST
       18
       0E
            GLOBAL DATA DUMP REQUEST
            DRUMKIT DATA DUMP REQUEST
       0D
       34
            ARPEGGIO PATTERN DATA DUMP REQUEST
            ALL DATA(PROG, COMBI, GLOBAL, DRUMS, ARPPAT, MULTI) DUMP REQUEST
       0F
            PROGRAM WRITE REQUEST
       11
       1A
            COMBINATION WRITE REQUEST
       40
            CURRENT PROGRAM PARAMETER DUMP
            PROGRAM PARAMETER DUMP
       4C
            CURRENT COMBINATION PARAMETER DUMP
       49
       4D
            COMBINATION PARAMETER DUMP
            MULTI DATA DUMP
       48
            GLOBAL DATA DUMP
       51
       52
            DRUMKIT DATA DUMP
       69
            ARPEGGIO PATTERN DATA DUMP
       4E
            MODE CHANGE
            PARAMETER CHANGE
       41
       53
            DRUMKIT PARAMETER CHANGE
            ARPEGGIO PATTERN PARAMETER CHANGE
(1) MODE REQUEST
   F0, 42, 3g, 50 Excl Header
   12
                   Function
                   End of Excl
(Receives this message, and transmits Func=42 message)
(2) CURRENT PROGRAM PARAMETER DUMP REQUEST
                                                                      R
   F0, 42, 3b, 50 Excl Header
   10
                  Function
   0.0
                   Reserved
   F7
                   End of Excl
(Receives this message, and transmits Func=40 or Func=24 message)
(3) PROGRAM PARAMETER DUMP REQUEST
                                                                      R
   F0, 42, 3g, 50 Excl Header
   1C
                   Function
                   Kind and Bank
   00kk bbbb
                                              (*1)
                   Program No.
   qqqq qqq0
   0.0
                   Reserved
                   End of Excl
(Receives this message, and transmits Func=4C or Func=24 message)
(4) CURRENT COMBINATION PARAMETER DUMP REQUEST
                                                                      R
   F0, 42, 3g, 50 Excl Header
```

19

Function Reserved F7 End of Excl (Receives this message, and transmits Func=49 or Func=24 message)

```
(5) COMBINATION PARAMETER DUMP REQUEST
                                                                             R
    F0, 42, 3g, 50 Excl Header
                     Function
    00kk bbbb
                     Kind and Bank
                                                   (*2)
                     Combination No.
    Occc cccc
                     Reserved
    00
    F7
                     End of Excl
(Receives this message, and transmits Func=4D or Func=24 message)
(6) MULTI DATA (In Memory) DUMP REQUEST
                                                                             R
    F0, 42, 3g, 50 Excl Header
    18
                     Function
    0.0
                     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
    0.0
                     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
    0D
                     Function
                     Kind & MSB of Dkit No.
    000d 00kk
                                                   (*3-1)
                                                   (*3-1)
    PPPP PPP0
                     Drumkit No.
    00
                     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
    0kk0 0000
                     Kind
                                                   (*3-2)
                     ARPPAT No.(MSB)
ARPPAT No.(LSB)
    0000 00aa
                                                   (*3-2)
    Oaaa aaaa
                     End of Excl
(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
    0F
                     Function
    0.0
                     Reserved
                     End of Excl
(Receives this message, and transmits Func=50 or Func=24 message)
(10) PROGRAM WRITE REQUEST
    F0, 42, 3g, 50 Excl Header
                     Function
    0000 bbbb
                     Write Program Bank
                                                   (*4)
                     Write Program No.
    Oppp pppp
    F7
                     End of Excl
(Receives this message, write the data and transmits Func=21 or Func=22 message)
(11) COMBINATION WRITE REQUEST
                                                                             R
    F0, 42, 3g, 50 Excl Header
    1 A
                     Function
                     Write Combination Bank Write Combination No.
    0000 bbbb
    Occc cccc
    F7
                     End of Excl
(Receives this message, write the data and transmits Func=21 or Func=22 message)
(12) CURRENT PROGRAM PARAMETER DUMP
                                                                             R , T
    F0, 42, 3g, 50 Excl Header
    40
                     Function
    0000 000t
                     Program Type(t = 0 : PCM, 1 : MOSS)
                                                   (*5, TABLE1,2)
    0ddd dddd
                     Data
                     End of Excl
(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.
(13) PROGRAM PARAMETER DUMP
                                                                             R , T
    F0, 42, 3g, 50 Excl Header
    4C
                     Function
```

(\*6)

0000 000v

Available Bank

(\*6)

00kk bbbb

Kind and Bank

```
Oppp pppp
                      Program No.
                      Data
                                                      (*5, TABLE1,2)
                      End of Excl
(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.
(14) CURRENT COMBINATION PARAMETER DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    49
                      Function
    \Omega
                      Reserved
    0ddd dddd
                      Data
                                                      (*5, TABLE3)
                     End of Excl
    F7
(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.
(15) COMBINATION PARAMETER DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    4D
                     Function
    0.0
                      Reserved
    00kk bbbb
                                                      (*7)
                      Kind and Bank
    0ppp pppp
                      Combination No.
    0ddd dddd
                    Data
End of Excl
                                                     (*5, TABLE3)
    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.
(16) MULTI DATA (In Memory) DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    48
                      Function
    00
                      Reserved
                                                     (*8)
                      Multi Data Size[4Bytes]
    Osss ssss
                      Multi Data Parameters
                                                     (*5,TABLE10)
    0mmm mmmm
                                                      (*5,TABLE11)
                      Cue Lists Data
    Occc cccc
    0ddd dddd
                      Multi Data
                                                      (*5,TABLE12)
                      End of Excl
(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.
(17) GLOBAL DATA DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    51
                      Function
    00
                      Reserved
    0ddd dddd
                                                      (*5, 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.
(18) DRUMKIT DATA DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    52
                      Function
    000d 00kk
                      Kind & MSB of Dkit No.
                                                     (*9-1)
    0ddd dddd
                      Drumkit No.
                                                      (*9-1)
    \cap \cap
                      Reserved
    0ddd dddd
                     Data
                                                      (*5, TABLE7)
       :
   F7
                     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) ARPEGGIO PATTERN DATA DUMP
                                                                                 R , T
    F0, 42, 3g, 50 Excl Header
    69
                      Function
    0kk0 0000
                                                      (*9-2)
                      Kind
    0000 00aa
                      ARPPAT No. MSB
                                                      (*9-2)
                                                      (*9-2)
                      ARPPAT No. LSB
    Oaaa aaaa
    0ddd dddd
                                                      (*5, TABLE9)
                     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) MODE CHANGE
                                                                           R , T
    F0, 42, 3g, 50
                   Excl Header
    4E
                    Function
                                                  (*11)
                    Mode
                    End of Excl
(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.
(22) PARAMETER CHANGE
                                                                           R , T
    F0, 42, 3g, 50 Excl Header
                    Function
    41
    0000 mmmm
                                                  (*11)
                    Mode
    0000 0000
                    Parameter ID(MSB)
                    Parameter ID(LSB)
                                                  (TABLE 1,2,3,5,6,12)
    Oppp pppp
    0000 0000
                    Parameter SUB ID(MSB)
    0qqq qqqq
                    Parameter SUB ID(LSB)
                                                  (TABLE 1,2,3,5,6,12)
                    Value(MSB bit7-18)
    0vvv vvvv
                                                  (*12)
                                                  (*12)
    0vvv vvvv
                    Value(LSB bit0-6)
   F7
                    End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 messages)
When the Parameter No. is changed by SW, transmits this message & data.
(23) DRUMKIT PARAMETER CHANGE
                                                                           R , T
    F0, 42, 3g, 50 Excl Header
    53
                    Function
                    Drumkit No.(kk = 00-8F( : 00-143 \text{ with MSB}))
    0kkk kkkk
                    Index No.(ss = 00-57( : A0-C8))
MSB of Drumkit No.
    Osss ssss
    0000 000k
                    Parameter No.(LSB)
Value(MSB bit7~18)
                                                  (TABLE 7)
    0ppp pppp
    Ovvv vvvv
                                                  (*12)
                                                  (*12)
    0vvv vvvv
                    Value(LSB bit0~6)
    F7
                    End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 messages)
(24) ARPEGGIO PATTERN PARAMETER CHANGE
                                                                           R , T
    F0, 42, 3g, 50 Excl Header
    6D
                    Function
    0000 000b
                    Arppegio AorB(b = 0 : Arppegio A 1 : Arppegio B)
                    Pattern No. (MSB)
    0000 00aa
                                                 (bit 7)
                    Pattern No.(LSB)
                                                  (bit 6-0) a = 000-147 ( : 000-327)
    Oaaa aaaa
                    Step No.(ss = 00-2F ( : 00-47))
    Osss ssss
                    Tone No.(tt = 00-0B ( : 00-11))
    Ottt tttt
                                                  (TABLE 9)
    0ppp pppp
0000 0000
                    Parameter No.(MSB)
                    Parameter No.(LSB)
                                                  (TABLE 9)
                    Value(MSB bit7~18)
    0vvv vvvv
    0vvv vvvv
                    Value(LSB bit0~6)
                                                  (*12)
                    End of Excl
(Receives this message & data, and transmits Func=23 or Func=24 messages)
(25) MODE DATA
    F0, 42, 3g, 50 Excl Header
    42
                    Function
    0000 mmmm
                    Mode
                                                  (*11)
                                                  (*13)
    0000 0000
                    Option
                    Setuped data1
    Osss ssss
                                                   (*13)
                    Setuped data2
                                                  (*13)
    0ddd dddd
    00
                    Reserved
                    End of Excl
    F7
(Receives FUNC=12 message, and transmits this message & data.)
(26) MIDI IN DATA FORMAT ERROR
                                                                           Т
    F0, 42, 3g, 50 Excl Header
    26
                    MIDI IN DATA FORMAT ERROR
    Occc cccc
                    Error Code
                                                  (*14)
                    End of Excl
   F7
(Transmits this message when there is an error in the MIDI IN message (ex.data length).)
(27) DATA LOAD COMPLETED (ACK)
                                                                           Т
   F0, 42, 3g, 50 Excl Header
    23
                    DATA LOAD COMPLETED
                    End of Excl
(Transmits this message when DATA LOAD, PROCESSING have been completed.)
(28) DATA LOAD ERROR (NAC)
                                                                           Т
    F0, 42, 3g, 50 Excl Header
    24
                    DATA LOAD ERROR
                    Error Code
End of Excl
    Occc cccc
                                                  (*15)
   F7
(Transmits this message when DATA LOAD, PROCESSING have not been completed (ex. protected).)
(29) WRITE COMPLETED
                                                                           Т
    F0, 42, 3g, 50 Excl Header
```

WRITE COMPLETED

```
End of Excl
(Transmits this message when DATA WRITE MIDI have been completed.)
(30) WRITE ERROR
                                                                            Т
    F0, 42, 3g, 50 Excl Header
    22
                     WRITE ERROR
                     Error Code
                                                  (*16)
                     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: Dump Program Bank IA~IE(IF) (size is same as TRITON)
         : 1 Bank Programs (Use b)
        2 : 1 Program (Use b & pp)
   b = 0 - 4: Bank Int A-E
        5 : Bank Int F
6 - 13 : Bank EXB A-H
* 2
   k = 0 : Dump Combination Bank IA~ID (size is same as TRITON)
        1 : 1 Bank Combinations(Use b)
        2 : 1 Combination(Use b & cc)
   b = 0 - 4 : Bank Int A-E
        5 - 12 : Bank EXB A-H
*3
 3-1
    k = 00 : All Drumkits[0-63](For TRITON)
        01 : 1 Drumkit(Use d)
        10 : All Drumkits[0-143](For TRITON-Rack)
   d = 0-8F: Drumkit 0-143(with MSB)
  3 - 2
    k = 00 : All Arpeggio Patterns[0-231](For TRITON)
        10 : 1 Arpeggio Pattern(Use a)
        01 : All Arpeggio Patterns[0-327](For TRITON-Rack)
    a = 0-147: Arpeggio Pattern 0-327
*4 PROGRAM, COMBINATION BANK
   b = 0 - 4 : Bank Int A-E
5 : Bank Int F(Only for Program)
        6 - 13 : Bank EXB A-H
*5 DATA CONVERT METHOD(INTERNAL DATA<-->MIDI DATA)
   Internal 7byte data <--convert--> MIDI 8 byte data
   example) Internal data(bit image) MIDI data(bit image)
                                      0ABCDEFG
                 Aaaaaaaa
                 Bbbbbbbb
                                      0aaaaaaa
                 Ccccccc
                                      0bbbbbbb
                 Dddddddd
                                      0cccccc
                                      0ddddddd
                 Eeeeeee
                 Ffffffff
                                      0eeeeeee
                                      Offfffff
                 Gggggggg
                                      0ggggggg
                 Hhhhhhhh
                 Iiiiiiii
                                      0HIJKLMN
                                      0hhhhhhh
                 Vvvvvvv
                                      00000WV0
                 Wwwwwww
                                      0vvvvvv
                                      Owwwwwww
                                      11110111 (EOX=7FH)
    v = 0: Bank Int A-E, Bank EXB A-H
        1 : Bank Int A-F, Bank EXB A-H
    k = 1 : 1 Bank Program
                                 (Use v & b)
        2 : 1 Program
                                 (Use b & pp)
   b = 0 - 5 : Bank Int A-F
6 - 13 : Bank EXB A-H
   k = 1 : 1 Bank Combination (Use b)
        2 : 1 Combination
                                 (Use b & cc)
   b = 0 - 4: Bank Int A-E 5 - 12: Bank EXB A-H
```

```
*8 Multi(Sequence) Data Size (4Bytes)
    'Multi(Sequence) Data Size' is a all multi 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)]
'All multi data' is 'MULTI DATA PARAMETERS(TABLE 10)','CUE LISTS DATA(TABLE 11)' and
    'MULTI DATA(TABLE 12)'.
*9
  9-1
    k = 00 : All Drumkits For TRITON[0-63]
        01 : 1 Drumkit (Use d)
        10 : All Drumkits For TRITON-Rack[0-143]
    d = 0-8F: Drumkit 0-143(with MSB)
  9 - 2
    k = 00 : All Arpeggio Patterns[0-231]
        10 : 1 Arpeggio Pattern (Use a 01 : All Arpeggio Patterns[0-327]
                                      (Use a)
                                                (For TRITON-Rack)
    a = 0-147: Arpeggio Pattern 0-327
*10 All DATA (PROG, COMBI, GLOBAL, DRUMS, ARPPAT, MULTI) DUMP FORMAT (For request, size is same as TRITON)
    [Global Data],
                                            (Drumkits[0-63])
    [Drums Data],
    [Arpeggio Pattern DATA],
                                            (Arpeggio Patterns[0-231])
    [All Combination Parameter Data],
                                            (Combination Bank IA~ID)
    [All Program Parameter Data],
                                            (Program Bank IA~IE(IF))
    [Multi Data Parameters],
                                            (TABLE 10)
    [Cue Lists Data],
[Multi Data & Multi Event Data]
                                            (For TRITON)
                                          (TABLE 12, "MULTI EVENT DATA FORMAT")
*11
    mmm = 0 : COMBI PLAY
          1 : COMBI EDIT
          2 : PROG PLAY
3 : PROG EDIT
          4 : MULTI
          5 : DEMO/SNG
            : SANPLING
            : GLOBAL
          8 : DISK
*12 VALUE DATA FORMAT (Use at PARAMETER CHANGE, DRUM KIT PARAMETER CHANGE)
    Bit15-13 of Value Data is the Sign Flag, and each bit has the same value
    Value Data SSSHHHHH LLLLLLLL (S=Sign H,L=13bit data)
    MIDI Data OSHHHHHL OLLLLLL
    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: Multi Clock is internal, = 1: External = 2: External mLAN
                  = 0 : Prog Mem is not protected,
                = 0 : Prog Mem is not protected, = 1 : protected
= 0 : Combi Mem is not protected, = 1 : protected
= 0 : Multi Mem is not protected, = 1 : protected
= 0 : Drums Mem is not protected, = 1 : protected
         bit 3
         bit 4
                 = 0 : ArpPat Mem is not protected, = 1 : ptotected
    cc = 0 : Received Data Length is wrong
          1 : Received Function code is not registered
         40 : Another type error
*15
    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
*16
           0 : Dest Memory is protected
    cc =
           1 : Dest Bank/Prog is not exist
            2 : The mode is wrong
          40 : Another type error
                        PROGRAM PARAMETERS (for PCM Synth)
 [ TABLE 1 ]
 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
                                    DATA(Hex) : VALUE
  No. (bit)
                                                                            DESCRIPTION
                                                                                                   | PARA No. |
                 -----
                                                                                                   +----+
   00
               PROGRAM NAME (Head)
                                        20~~7F
```

15		PROGRAM NAME (Tail)	KORG TRITON-Rack MIDI Implementation	Revision 1.3 (Jul.:
	TNSERT	+ EFFECT PARAMETERS	<del></del>	
 16		+		1E,00
:		FX1~~5 (24Bytes * 5) (120 Bytes)		23,??
		+ EFFECT PARAMETERS	<del>-</del>	+
 136		+	+	24,00
:		FX1~~2 (20Bytes * 2) Return, Chain & Maste	or FO (16 Putog)	: :
191		(56 Bytes)	EL EQ (10 Byces)	27,??
		AUDITION PARAMETERS	, 	<u></u>
154)		RIFF NO.(MSB)	- 0000~~017E : 0~~382	00,17
155)		RIFF NO.(LSB)	000000017E . 000362	00,17
156)		TRANSPOSE	E8~~18 : -24~~24	00,18
	ARPEGG:	IATOR PARAMETERS	·	<u>-</u>
192		TEMPO	28~~F0 : 40~~240	1C,00
 193		SWITCH	0:OFF, 1:ON	1C,01
194		PATTERN NO.	00~~FF : 0~~255   0~~147 : 0~~327 **1-8	1D,00
105	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	1D,01
	b5	PATTERN NO. MSB	0 or 1   0~~147 : 0~~327 **1-8	1D,00
196		GATE	00~~64 : 0~~100[%], 65:Step	1D,03
 197 		VELOCITY	01~~7F : 1~~127, 80:Key, 81:Step	1D,04
 198		SWING	9C~~64 : -100~~100	1D,05
	bit0	+	0:OFF, 1:ON	1D,06
	bit1	+	0:OFF, 1:ON	1D,07
199	bit2	+   KEY SYNC.	0:OFF, 1:ON	1D,08
	bit3	+   KEYBOARD	0:OFF, 1:ON	1D,09
 200		+	00~~7F : C-1~~G9	1D,0A
201		+   BOTTOM KEY	00~~7F : C-1~~G9	1D,0B
 202		+   TOP VELOCITY	01~~7F : 1~~127	1D,0C
 203		+   BOTTOM VELOCITY	01~~7F : 1~~127	1D,0D
	COMMON	+ PARAMETERS	++	+
	b0~~1	+   OSCILLATOR MODE	0:Single, 1:Double, 2:Drums	00,01
	bit2	+   KEY ASSIGN	0:Poly, 1:Mono	00,02
	bit3	LEGATO	0:OFF, 1:ON	00,03
204	b4~~5	+   PRIORITY	0:Low, 1:High, 2:Last	00,04
	bit6	+   SINGLE TRIGGER	0:OFF, 1:ON	00,05
	bit7	+	0:OFF, 1:ON	00,06
	b0~~6	+   BUS SELECT	00:L/R,01~~05:IFX1~~5,06~~09:1~~4,0A:1/2,0B:3/4,0C:Off	00,07
205	 bit7	USE DKIT SETTING	0:OFF, 1:ON	00,08
 206			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			00,0C
210	bit6		0:Toggle, 1:Momentary	00,10
	 bit7	+   SW 1 ON/OFF	0:OFF, 1:ON	00,0E

| 0:OFF, 1:ON |

00,0E |

bit7 | SW 1 ON/OFF

	b0~~5	SW 2 ASSIGN TYPE	$00\sim 0C : \frac{KORGT}{**1-2}$	*RITON-Rack MIDI Implementation	00,0D
211	bit6			 +	<del>-</del>
211	+	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 **1-9		00,16
213	b0~~6	KNOB 2 ASSIGN	00~~7C: **1-3	 	00,13
	bit7  1	REALTIME CONTROLS MSB	0:A or B, 1:C **1-9	<u> </u>	00,19
214	<u> </u>	KNOB 3 ASSIGN	00~~7C : **1-3	<u> </u>	00,14
215	į	KNOB 4 ASSIGN	00~~7C : **1-3	į	00,15
	PITCH E	G			<u>_</u>
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	·		00~~63 : 00~~99	<del> </del> 	01,04
221		RELEASE LEVEL	9D~~63 : -99~~99		01,05
222	·+· 	A.M.SOURCE (LEVEL1)	00~~2A: **1-4		01,03
	· <del> </del>		· <del> </del>	- +	÷
223		INT BY A.M.(LEVEL1)	9D~~63 : -99~~99	716	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	<u> </u>	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:+	į	01,0F
220	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
	OSCILLA	+- FOR 1	+	+	
	bit7	+- HI START OFFSET	0:OFF, 1:ON	+	02,02
230	bit6		0:OFF, 1:ON	<del>-</del>	02,03
- 0	b0~~6	HI SAMPLE NO.(MSB)	- , <del></del> 		
231		HI SAMPLE NO.(MSB)	00~~03E7 : 00~~999		02,01
231	·+		 	222 is depend on DOM ontion	02 00
		HI BANK	· <del>i</del>	??? is depend on PCM option.	02,00
233	+	HI LEVEL	00~~7F: 00~~127		02,04
	bit7	:	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	+	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	<del></del> -	DELAY START	00~~60,61 : **1-5	<u></u> -	02,0A
239		VEL M.SAMPLE SW	01~~7F : 01~~127	( For Vel Split)	02,0B
	+	VEL ZONE BOTTOM	01~~7F : 01~~127	+	02,0C
240		VEL ZONE BOITOM	01 /1 01 12/	ı	·

			KOKO	TRITON-Rack MIDI Implementation	Revision 1.3 (Ju
	b0~~4	WAVEFORM	0~~14 : **1-6	-+5	03,00
242 -	bit7	KEY SYNC.	0:OFF, 1:ON	-+ 	03,01
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	-+ 	03,0A
247	b6~~4	SYNC BASE NOTE	+	-+ 1,5:2T,6:2,7:1	03,0B
-	bit7	TIMES	00~~0F : 00~~16	-+ 	03,0C
248		A.M.SOURCE (TIME1)	00~~2A : **1-4	l Alternate Modulation	03,06
249		INT BY A.M.(TIME1)	+   9D~~63 : -99~~99	-+ 	03,07
250		A.M.SOURCE (TIME2)	00~~2A : **1-4	l Alternate Modulation	03,08
251		INT BY A.M.(TIME2)	+   9D~~63 : -99~~99	-+ 	03,09
	OSCILI		+	-+	+
252					04,00
: 261		Same as OSCILLATOR 1 (10 Bytes)	LFO 1 (242~~251)		04,0C
	OSCILI	ATOR 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)	+	-+	05,03
 267		INT BY A.M.(PITCH)	+	-+ 7	05,04
 268		PITCH SLOPE	+   F6~~14 : -1.0~~2.0	-+ 	++   05,05
 269		INT BY PITCH EG	+	-+	05,06
270		A.M.SOURCE (P.EG)	+	-+	05,07
271		INT BY A.M.(P.EG)	8D~~73 : **1-7	-+ 7	05,08
 272		INT BY OSC-1 LFO 1	+	-+	++   05,09
273		INT BY OSC-1 LFO 2	+	-+ 7	++   05,0A
	bit0	PORTAMENTO	+   0:DIS, 1:ENA	·+ 	++   05,0B
274 -	bit1	PORTAMENTO FINGERED	+   0:OFF, 1:ON	·+ 	05,0C
 275		PORTAMENTO TIME	+   00~~7F : 00~~127	·+ 	+
 276		PITCH BY JS(+X)	C4~~0C : -60~~12	·+ 	+
 277		PITCH BY JS(-X)	C4~~0C : -60~~12	·+ 	++   05,0F
 278		PITCH BY RIBBON(X)	+   F4~~0C : -12~~12	·+ 	++   05,10
 279		( RESERVED )	+ 	-+	+
280		LFO1 INT BY JS(+Y)	+	-+ 7	++   05,11
281	i	LFO2 INT BY JS(+Y)	8D~~73 : **1-7	-+7	05,12
282		A.M.SOURCE(LFO1INT)	00~~2A : **1-4	-+	05,13
283		INT BY A.M.(LFO1INT)	8D~~73 : **1-7	-+ 7	05,14
 284		A.M.SOURCE(LFO2INT)		-+	05,15
 285	<del>-</del>	INT BY A.M.(LFO2INT)		-+	05,16
	OSCILI	LATOR 1 FILTER	+	-+	÷ †
286	<del>-</del>	TYPE	+	+	+
287	<del> </del>	TRIM	00~~63 : 00~~99	- <del>-</del>	06,01
		· 	, <b></b>	· <del>+</del>	+

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288	RESONANCE	00~~63 : 00~~99	+		06,02
289	A.M.SOURCE(RESO.)	00~~2A :	**1-4	Alternate Modulation	06,03
290	INT 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
OSCI	-+		+		
294	FREQUENCY	00~~63 : 00~~99			07,00
 295	KBD TRACK INTENSITY	9D~~63 : -99~~99	 		07,01
 296	-+	00~~2A :	**1-4	Alternate Modulation	07,02
 297	INT BY A.M.(MOD1)	9D~~63 : -99~~99	   		07,03
 298	A.M.SOURCE(MOD2)	00~~2A :	<del> </del> **1-4	Alternate Modulation	07,04
 	INT BY A.M.(MOD2)	9D~~63 : -99~~99			07,05
 300	-+				
	EG INTENSITY	9D~~63 : -99~~99 	<u> </u> +		07,06
301	EG VELOCITY	9D~~63 : -99~~99			07,07
302 	INT BY LFO 1	9D~~63 : -99~~99 	+		07,08
303 	INT BY LFO 2	9D~~63 : -99~~99 	 +		07,09
304	LFO 1 BY JS(-Y)	9D~~63 : -99~~99	+		07,0A
305 	LFO 2 BY JS(-Y)	9D~~63 : -99~~99			07,0B
306	INT BY A.M.(EG)	9D~~63 : -99~~99	<u>İ</u>	Alternate Modulation	07,0C
307	INT BY A.M.(LFO1)	9D~~63 : -99~~99	į	Alternate Modulation	07,0D
	-++-		+		+
308	INT BY A.M.(LFO2)	9D~~63 : -99~~99		Alternate Modulation	07,0E
	INT BY A.M.(LFO2)   -+	9D~~63 : -99~~99 	+	Alternate Modulation	07,0E   +
308  OSCI 309	-++-	9D~~63 : -99~~99 	<del> </del> 	Alternate Modulation	07,0E   +
OSCI	-++-		<del> </del> 	Alternate Modulation	+
OSCI 309 : 323	LLATOR 1 FILTER B -+		<del> </del> 	Alternate Modulation	08,00
OSCI 309 : 323	LLATOR 1 FILTER B		<del> </del> 	Alternate Modulation	08,00   08,0E   08,0E
OSCI 309 : 323 OSCI	LLATOR 1 FILTER B  Same as OSCILLATOR 1 F  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL	FILTER B (294~~308)  9D~~63: -99~~99	   	Alternate Modulation	08,00   08,0E   09,00
OSCI 309 : 323 OSCI 324	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME	FILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99	     	Alternate Modulation	08,00   08,0E   09,00   09,01
OSCI 309 : 323 OSCI 324	LLATOR 1 FILTER B  Same as OSCILLATOR 1 F  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL	9D~~63: -99~~99 9D~~63: -99~~99		Alternate Modulation	08,00
OSCI 309 : 323 OSCI 324 325 326	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME	9D~~63: -99~~99 00~~63: -99~~99 00~~63: 00~~99		Alternate Modulation	08,00   08,0E   09,00   09,02   09,03
OSCI 309 : 323 OSCI 324 325 326	Same as OSCILLATOR 1 H (15 Bytes)	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: 00~~99 9D~~63: -99~~99		Alternate Modulation	08,00   08,0E   09,00   09,01   09,02   09,03   09,04   09,04
OSCI 309 : 323 OSCI 324 325 326 327 328	Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  BREAK POINT LEVEL  SLOPE TIME	9D~~63: -99~~99 00~~63: 00~~99 00~~63: 00~~99		Alternate Modulation	08,00   08,0E   09,00   09,02   09,03   09,04   09,05
OSCI 309 323 OSCI 324 325 326 327 328	Same as OSCILLATOR 1 H (15 Bytes)	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: -99~~99		Alternate Modulation	08,00   08,0E   09,00   09,01   09,03   09,04   09,04
OSCI 309 323 OSCI 324 325 326 327 328	Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  BREAK POINT LEVEL  SLOPE TIME	9D~~63: -99~~99 00~~63: 00~~99 00~~63: 00~~99		Alternate Modulation	08,00   08,00   09,00   09,02   09,03   09,04   09,05
OSCI 309 : 323 OSCI 324 325 326 327 328 329	Same as OSCILLATOR 1 H (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  BREAK POINT LEVEL  SLOPE TIME  SUSTAIN LEVEL	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: -99~~99		Alternate Modulation	08,00   08,00   09,00   09,02   09,03   09,04   09,05   09,06   09,06   09,06
OSCI 309 : 323 OSCI 324 325 326 327 328 329	Same as OSCILLATOR 1 H (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL ATTACK TIME ATTACK LEVEL  DECAY TIME BREAK POINT LEVEL SLOPE TIME SUSTAIN LEVEL RELEASE TIME RELEASE LEVEL	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99		Alternate Modulation	08,00   08,0E   09,00   09,03   09,04   09,05   09,06   09,07   09,07
OSCI  309 : 323 OSCI  324 325 326 327 328 330 331 55~~b	Same as OSCILLATOR 1 H (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  BREAK POINT LEVEL  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99		Alternate Modulation	08,00   08,0E   09,01   09,02   09,03   09,05   09,06   09,07   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08   09,08
OSCI 309 323 OSCI 324 325 326 327 328 329 330 331 332 b7~~b	Same as OSCILLATOR 1 H (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  BREAK POINT LEVEL  SLOPE TIME  RELEASE TIME  RELEASE LEVEL  RELEASE LEVEL  SLOPE (A.M.TIME1)	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 5F:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,00   08,0E   09,00   09,01   09,03   09,05   09,05   09,06   09,07   09,08   09,08   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12   09,12
OSCI 309 323 OSCI 324 325 326 327 328 329 330 331 332 b7~~b 55~~b	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL  RELEASE (A.M.TIME1)  SLOPE (A.M.TIME1)	PILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,01   09,02   09,03   09,05   09,05   09,07   09,08   09,12   09,12   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11   09,11
OSCI  309 : 323  OSCI  324  325  326  327  328  329  330  331  332  b7~~b  b5~~b	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  BREAK POINT LEVEL  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE TIME  RELEASE LEVEL  SLOPE (A.M.TIME1)  ATTACK (A.M.TIME1)	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 5F:-, 0:OFF, 1:+ FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,00   09,02   09,03   09,05   09,05   09,06   09,07   09,07   09,08   09,12   09,11   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10   09,10
OSCI  309 : 323  OSCI  324  325  326  327  328  329  330  331  332  b7~~b  b5~~b  57~~b  b7~~b  b5~~b	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL  RELEASE LEVEL  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME1)  RELEASE (A.M.TIME1)	PILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,00   09,01   09,03   09,05   09,06   09,07   09,08   09,12   09,10   09,10   09,0F   09,0F
OSCI  309 : 323  OSCI  324  325  326  327  328  329  330  331  332  b7~~b  b5~~b  57~~b  b7~~b  b7~~b	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME1)  ATTACK (A.M.TIME2)  SLOPE (A.M.TIME2)	9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 00~~63: 00~~99 9D~~63: -99~~99 FF:-, 0:OFF, 1:+ FF:-, 0:OFF, 1:+ FF:-, 0:OFF, 1:+ FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,02   09,03   09,04   09,05   09,06   09,07   09,07   09,07   09,07   09,11   09,12   09,11   09,0F   09,0F   09,06   09,07   09,06   09,07   09,16   09,07   09,16   09,07   09,16   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06   09,06
OSCI  309 : 323  OSCI  324  325  326  327  328  329  330  331   b5~~b  b7~~b   b7~~b  57~~b	Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  BREAK POINT LEVEL  SLOPE TIME  RELEASE TIME  RELEASE LEVEL  RELEASE LEVEL  6 RELEASE (A.M.TIME1)  4 SLOPE (A.M.TIME1)  ATTACK (A.M.TIME2)  4 SLOPE (A.M.TIME2)	FILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,00   09,02   09,03   09,05   09,06   09,07   09,08   09,12   09,11   09,11   09,10   09,16   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15   09,15
OSCI  309 : 323 OSCI  324 325 326 327 328 329 331 b7~~b b5~~b b1~~b b7~~b b7~~b b7~~b b7~~b b7~~b b7~~b	LLATOR 1 FILTER B  Same as OSCILLATOR 1 H  (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  DECAY TIME  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME1)  ATTACK (A.M.TIME2)  SLOPE (A.M.TIME2)  ATTACK (A.M.TIME2)	PILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  FF:-, 0:OFF, 1:+	Alternate Modulation	08,00   08,0E   09,01   09,02   09,03   09,05   09,06   09,07   09,07   09,07   09,07   09,11   09,11   09,10   09,15   09,16   09,15   09,15   09,14   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,13   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14   09,14	
OSCI  309 : 323  OSCI  324  325  326  327  328  329  330  331  332  b7~~b  b5~~b  b1~~b  b5~~b  34   b5~~b	Same as OSCILLATOR 1 H (15 Bytes)  LLATOR 1 FILTER EG  START LEVEL  ATTACK TIME  ATTACK LEVEL  BREAK POINT LEVEL  SLOPE TIME  SUSTAIN LEVEL  RELEASE TIME  RELEASE LEVEL  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME1)  ATTACK (A.M.TIME2)  ATTACK (A.M.TIME2)  ATTACK (A.M.TIME2)  ATTACK (A.M.TIME2)	FILTER B (294~~308)  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  00~~63: 00~~99  9D~~63: -99~~99  FF:-, 0:OFF, 1:+		Alternate Modulation	08,00   08,0E   09,01   09,02   09,03   09,05   09,06   09,07   09,08   09,12   09,11   09,10   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16   09,16

		KORG	I RITON-Rack MIDI Implementation	Revision 1.3 (Ju
336	A.M.SOURCE(TIME1)	00~~2A : **1-4	+   Alternate Modulation	09,09
337	INT BY A.M.(TIME1)	9D~~63 : -99~~99	<del>+</del> 	09,0A
338	A.M.SOURCE(TIME2)	00~~2A : **1-4	Alternate Modulation	09,0B
339	INT BY A.M.(TIME2)	9D~~63 : -99~~99	†	09,0C
340	-+	00~~2A : **1-4	+   Alternate Modulation	09,0D
241	INT BY A.M.(LEVEL)	9D~~63 : -99~~99	<del>+</del> 	09,0E
OSCI	-++ LLATOR 1 FILTER KEYBOARD	TRACK	+	+
342	KEY LOW	00~~7F : C-1~~G9	+ 	0A,00
343	-+	9D~~63 : -99~~99	+ 	OA,01
344	-+	00~~7F : C-1~~G9	+ 	OA,02
345	-+	9D~~63 : -99~~99	+ 	+   0A,03
OSCII	-++ LLATOR 1 AMPLIFIER		+	+
346	-+	00~~7F : 00~~127	+ 	0B,00
347	INT BY VELOCITY	9D~~63 : -99~~99	+ 	++   0B,01
348	A.M.SOURCE	00~~2A : **1-4	+   Alternate Modulation	+
349	INT BY A.M.	9D~~63 : -99~~99	<del>*</del> 	++   0B,03
350	INT BY LFO 1	9D~~63 : -99~~99	+ 	++   0B,04
351	-+	9D~~63 : -99~~99	+ 	++   0B,05
352	A.M.SOURCE(LFO1)	00~~2A : **1-4	+	+   0B,06
353	-+	9D~~63 : -99~~99	<del>;</del> 	++   0B,07
354	A.M.SOURCE(LFO2)	00~~2A : **1-4	+	+   0B,08
355	INT BY A.M.(LFO2)	9D~~63 : -99~~99	<del>;</del> 	0B,09
OSCII	-++ LLATOR 1 AMPLIFIER EG		+	+ 
 356	-++   START LEVEL	00~~63 : 00~~99	+ 	+
357	-+	00~~63 : 00~~99	÷ 	0C,01
 358	ATTACK LEVEL	00~~63 : 00~~99	÷ 	+
 359	-+	00~~63 : 00~~99	÷ 	<del>-</del>
 360	-+	00~~63 : 00~~99	÷ 	<del>-</del>
 361	-+	00~~63 : 00~~99	÷ 	<del>-</del>
 362	-+	00~~63 : 00~~99	÷ 	<del>-</del> <del>-</del>   00,06
 363	-+	00~~63 : 00~~99	÷ 	<del>-</del> <del>-</del>   0C,07
 364	-+	00~~2A : **1-4	+   Alternate Modulation	<del>-</del> <del>-</del>   00,08
 365	-+	9D~~63 : -99~~99	<del>;</del> 	++   0C,09
 366	-+		+	++
	A.M.SOURCE(TIME2)	00~~2A : **1-4	Alternate Modulation	0C,0A
367	A.M.SOURCE(TIME2)   -+	00~~2A : **1-4 9D~~63 : -99~~99	Alternate Modulation  - 	0C,0A   ++   0C,0B
367  368	-+		<del>;</del>   <del> </del>	÷+
	INT BY A.M.(TIME2)	9D~~63 : -99~~99	<del>;</del>   <del> </del>	0C,0B
368	INT BY A.M.(TIME2)     A.M.SOURCE(LEVEL)     INT BY A.M.(LEVEL)	9D~~63 : -99~~99 	<del>;</del>   <del> </del>	0C,0B     0C,0C
368	INT BY A.M.(TIME2)     A.M.SOURCE(LEVEL)     INT BY A.M.(LEVEL)     ATTACK (A.M.TIME1)	9D~~63 : -99~~99 00~~2A : **1-4 9D~~63 : -99~~99	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D
368 369 b0~~	INT BY A.M.(TIME2)  A.M.SOURCE(LEVEL)  INT BY A.M.(LEVEL)  ATTACK (A.M.TIME1)  BLOCAY (A.M.TIME1)	9D~~63 : -99~~99 00~~2A : **1-4 9D~~63 : -99~~99 FF:-, 0:OFF, 1:+	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D     0C,0E
368 369 b0~~ b2~~ 370	INT BY A.M.(TIME2)  A.M.SOURCE(LEVEL)  INT BY A.M.(LEVEL)  ATTACK (A.M.TIME1)  B DECAY (A.M.TIME1)	9D~~63 : -99~~99 00~~2A : **1-4 9D~~63 : -99~~99 FF:-, 0:OFF, 1:+ FF:-, 0:OFF, 1:+	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D     0C,0E     0C,0F
368 369 b0~~. 52~~. 370	INT BY A.M.(TIME2)     A.M.SOURCE(LEVEL)     INT BY A.M.(LEVEL)     ATTACK (A.M.TIME1)     B DECAY (A.M.TIME1)     SLOPE (A.M.TIME1)     RELEASE (A.M.TIME1)	9D~~63 : -99~~99  00~~2A : **1-4  9D~~63 : -99~~99  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D     0C,0E     0C,0F     0C,10
368 369  b0~~  b2~~  b4~~  b6~~	INT BY A.M.(TIME2)  A.M.SOURCE(LEVEL)  INT BY A.M.(LEVEL)  ATTACK (A.M.TIME1)  BLOPE (A.M.TIME1)  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME2)	9D~~63: -99~~99  00~~2A: **1-4  9D~~63: -99~~99  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D     0C,0E     0C,0F     0C,10     0C,11
368 369  b0~~ b2~~ 54~~ b6~~	INT BY A.M.(TIME2)  A.M.SOURCE(LEVEL)  INT BY A.M.(LEVEL)  ATTACK (A.M.TIME1)  BLOPE (A.M.TIME1)  RELEASE (A.M.TIME1)  ATTACK (A.M.TIME2)  BLOPE (A.M.TIME2)	9D~~63 : -99~~99  00~~2A : **1-4  9D~~63 : -99~~99  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+  FF:-, 0:OFF, 1:+	<del>;</del>   <del> </del>	0C,0B     0C,0C     0C,0D     0C,0E     0C,0F     0C,10

		vonas		D :: 12(715101)
	b0~~1  START (A.M.LEVEL)	FF:-, 0:OFF, 1:+	FRITON-Rack MIDI Implementation	Revision 1.3 (Jul.5.'01)  OC, 16
372	b2~~3   ATTACK (A.M.LEVEL)	FF:-, 0:OFF, 1:+	i 	-++   0C,17
	+	FF:-, 0:OFF, 1:+	¦ 	-+   0C,18
-   273	( RESERVED )			-++ 
+ 	OSCILLATOR 1 AMPLIFIER KEYE	ONED TEXCE	! <del>+</del>	-+
 +   374		00~~7F : C-1~~G9	+	-+
+			 	0D,00   -++
375 +	RAMP LOW	9D~~63 : -99~~99	 	0D,01   -++
376 +		00~~7F : C-1~~G9	 <del> </del>	0D,02   -+
377 +	RAMP HIGH	9D~~63 : -99~~99 	 +	0D,03   -+
 +	OSCILLATOR 1 OUTPUT		+	-++
278 +	( RESERVED )		 +	
379 +	PAN	00:RND, 01~~7F : L001~	~R127 +	0E,00
380	A.M.SOURCE(PAN)	00~~2A : **1-4	Alternate Modulation	0E,01
381	INT BY A.M.(PAN)	9D~~63 : -99~~99	 	0E,02
+   382 +	SEND1 (TO MFX1)	00~~7F: 00~~127		OE,03
383	SEND2 (TO MFX2)	00~~7F: 00~~127	<del>-</del>	-+   0E,04
+ 	OSCILLATOR 2		+	-+
+   384	· <del> </del>			-++   OF,00
537	Same as OSCILLATOR 1 (154 Bytes)	(230~~383)		: 1B,0E
+   538	·i		+ 	- <del>-</del>
: 539	( RESERVED )			
**1-2 **1-3	3: Knob Mod.3:CC#20 6: Portamento Time:CC#05 9: Pan:CC#10 C: FX Control 2:CC#13 F: Filter EG Int.:CC#79 12: F/A Sustain:CC#70 15: Pitch LF01 Dep:CC#77 18: SW 2 Mod.:CC#81 1B: MFX Send 1:CC#93 : O: Off 4: LF0 1 8: Flt KTrk 0/+ C: Amp KTrk 0/+ C: Amp KTrk 0/+ 10: Poly After 1 14: JS-Y:CC#02 1 18: Ribbon:CC#16 1 1C: KnobMod3:#20 1 20: KnobMod3 [+]	1 : SW 1/2 Mod:CC#80/CC#8 4 : Octave Up:N/A 7 : JS-Y Lock:N/A A : JS+Y & Ribbon Lock:N .  1 : Knob Mod.1:CC#1 4 : Knob Mod.4:CC#1 7 : Volume:CC#07 A : Expression:CC#1 10 : F/A Attack:CC#1 11 : F/A Release:CC#1 12 : F/A Release:CC#1 15 : Pitch LFO1 Dly 19 : Foot Switch:CC#1 11 : Pitch EG 2 : F/5 5 : LFO 2 6 : F/5 5 : LFO 2 6 : F/5 9 : Flt KTrk +/0 A : Ar D : Amp KTrk +/0 E : No 1 : After Touch 12 : J\$ 5 : JS+Y & AT/2 16 : J\$ 9 : Slider:CC#18 1A : Kr D : KnobMod4 [+] 22 : D\$	5 : JS X Lock:N/A 8 : Ribbon Lock:N/A B : JS-Y & Ribbon Lock 17	9 #08 #12 C#71 CC#76 ~MIDI CC#95 /- /-
**1-5 **1-6	<pre>: Data     Time[mSec]      00~~19 :     00~~ 50      1A~~28 :     60~~ 200      29~~38 :     250~~1000      39~~60 :     1100~~5000 :     0 : Triangle 0      3 : Saw 0      6 : Sine      9 : Exponential Saw Down      C : Step Triangle-6      F : Random1 (S/H)      12 : Random4 (Vector)</pre>	1: Triangle 90 4: Saw 180 7: Guitar A: Exponential Saw Up D: Step Saw-4 10: Random2 (S/H) 13: Random5 (Vector)	Empo  KeyOff  2: Triangle Random  5: Square  8: Exponential Triangle  B: Step Triangle-4  E: Step Saw-6  11: Random3 (S/H)  14: Random6 (Vector)	

```
**1-8 : Arpeggio Pattern No. Format PATTERN NO.MSB(No.195 bit5) : N
**1-9: Realtime Controls Format
REALTIME CONTROLS MSB(No.212 bit7): C
REALTIME CONTROLS (No.213 bit7): c
```

Cc = 0 : A = 1 : B = 2 : C

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.

+   No.	(bit)	+   PARAMETER	DATA(Hex) : VALUE	+ DESCRIPTION	++   PARA No.
÷ I 00	·	+   PROGRAM NAME (Head)		; ;	;; 
15		: PROGRAM NAME (Tail)	20~~7F		
+	INSERT	+ EFFECT PARAMETERS		+	; 
+   16		+ 			++   1E,00
: 135		FX1~~5 ( 24Bytes * 5 (120 Bytes)	)		4D,??
÷	MASTER	EFFECT PARAMETERS			÷
+   136		+ 			+   24,00
: : 191		FX1~~2 ( 20Bytes * 2 Return, Chain & EQ ( (56 Bytes)			: : 4E,??
		AUDITION PARAMETERS			
(154)		RIFF NO.(MSB)	0000 0178 0 200		20 10
(155)		RIFF NO.(LSB)	- 0000~~017E : 0~~382		28,18
(156)		TRANSPOSE	E8~~18 : -24~~24		28,19
ļ	ARPEGG:	IATOR PARAMETERS			
192		Come of DDOCDAM [MADI	E 11 ADDECGTAROD /100 01	2 )	4B,00
203		(12 Bytes)	LE 1] ARPEGGIATOR (192~~213	3)	4C,0D
ļ	COMMON	PARAMETERS			
	b0~~1	(OSCILLATOR MODE)	3	3 Fixed ( Means MOSS )	
204		VOICE ASSIGN	0:Mono Multi, 1:Mono S:	•	28,03
204	b4~~5	KEY PRIORITY	0:Low, 1:High, 2:Last	Available when MONO	28,02
	bit6				[
	bit7	HOLD	0:OFF, 1:ON		28,01
205		BUS SELECT	00:L/R,01~~05:IFX1~~5,06	~~09:1~~4,0A:1/2,0B:3/4,0C:Off	28,09
206		CATEGORY	00~~0F : 01~~16		28,00
207		SCALE TYPE	00~~1A : **1-1		28,0A
208		SCALE KEY	00~~0B : C ~~ B		28,0B
209		RANDOM INTENSITY	00~~63 : 0~~99	   	28,0C
210	b0~~5	SW 1 ASSIGN	00~~0C : **1-2		28,0D
	bit6	MODE	0:Toggle, 1:Momentary	,   	28,11   +
	bit7	SW	0:OFF, 1:ON	<u> </u>	28,0E
211		SW 2 (Same as SV	1 (210) )	'	8,10~~12
1 212	b0~~6	KNOB 1 ASSIGN TYPE	00~~7C : **1-3		28,13
212	bit7	REALTIME CONTROLS	0:A, 1:B **1-9	•	28,17
212	b0~~6	KNOB 2 ASSIGN	00~~7C : **1-3	   	28,14
213	bit7	REALTIME CONTROLS MSB	0:A or B, 1:C **1-9	:	28,1A
214		KNOB 3 ASSIGN	00~~7C : **1-3		28,15
215		KNOB 4 ASSIGN	00~~7C : **1-3		28,16

RETRIGO	++ GER CONTROL		+	+
216	+   RETRIGGER CONTROLLER	00,0B~~29 : *2-1	+ 	28,04
217	++   THRESHOLD VELOCITY	01~~7F : 1~~127	+ 	<del></del>
UNISON	++		+	+
b0~~1	+   UNISON TYPE	0:OFF, 1:2voices, 2:3vo	ices, 3:6voices	28,06
218 bit2	++   (UNISON SW)	1	1 Fixed ( Means Enable	)
bit3	+   UNISON MODE	0:Fixed, 1:Dynamic	+ 	28,07
219	+   UNISON DETUNE	00~~63 : 0~~99	+ 	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	++   DECAY TIME	00~~63 : 0~~99	+ 	36,03
 224	+   BREAK LEVEL	9D~~63 : -99~~99	+	36,04
 225	++   SLOPE TIME	00~~63 : 0~~99	+ 	+   36,05
 226		9D~~63 : -99~~99	+ 	<del>-</del>
 227		00~~63 : 0~~99	÷ 	36,07
 228	++   RELEASE LEVEL	9D~~63 : -99~~99	+ 	+   36,08
 229	+   LEVEL AMS	00~~29 : *2-1	+   Alternate Modulation	36,09
 230		9D~~63: -99~~99	<del>.</del> 	+   36,0A
 231		9D~~63: -99~~99	÷ 	<del>-</del>
 232		00~~29 : *2-1	   Alternate Modulation	<del>-</del>
 233	++   INTENSITY	9D~~63: -99~~99	<del>.</del> 	+   36,0D
 234	++   TIME AMS 2	00~~29 : *2-1	Alternate Modulation	+   36,0E
 235		9D~~63: -99~~99	<del>.</del> 	+   36,0F
 236		9D~~63 : -99~~99	+ 	36,10
 237		9D~~63: -99~~99	<del>.</del> 	36,11
 238	++   RELEASE INTENSITY	9D~~63 : -99~~99	+ 	36,12
EG 2 ~~	:		+	+
 239 :	+	1 (220 ~~ 238) )		See above 18
257 	EG 2 ( Same as EG (19 Bytes)	1 (220 ~~ 230) )		parameters. ParamID = 37
258 : 276	EG 3 ( Same as EG (19 Bytes)	1 (220 ~~ 238) )		See above 18 parameters. ParamID = 38
277 : 295	EG 4 ( Same as EG (19 Bytes)	1 (220 ~~ 238) )		See above 18 parameters. ParamID = 39
LFO 1	<del></del>		+-	
	WAVEFORM	06:Saw Down 0, 07:Saw D 09:Random-S/H, 0A:Random 0B:Step Triangle-4, 00:Step Saw-4, 0E:Step S 10:Exponential Saw Up, 1	m-Vector, C:Step Triangle-6, aw-6, OF:Exponential Trian 1:Exponential Saw Down	gle,
296 b6~~7	KEY SYNC.	0:Off, 1:byTimbre, 2:	 byVoice	3A,01
 297		00~~C7 : 0~~199	+ 	+3A,02
271	++	00~~29 : *2-1	+	   3A,03
 298				511,05
		9D~~63 : -99~~99		3A,04

			KORG	TRITON-Rack MIDI Implementation	Revision 1.3 (Jul.
301	ļ	INTENSITY	9D~~63 : -99~~99		3A,06
302	+   FADE	IN	00~~63 : 0~~99		+   3A,07
303	+   AMPLI	TUDE AMS	00~~29 : *2-1	Alternate Modulation	3A,08
304		INTENSITY	9D~~63 : -99~~99	·+ 	++   3A,09
305	+   OFFSE		CE~~32 : -50~~50		+   3A,0A
		TEMPO SYNC.			+
	0~~3  +	TIMES	00~~0F : 1~~16	+	3A,0D   +
306 b	4~~6  <u>+</u>	BASE NOTE	0:16,1:8T,2:8,3:4T,4:4	k,5:2T,6:2,7:1	3A,0C   +
b.	it7   +	SYNC. SW	0:OFF, 1:ON	+	3A,0B
LF(	0 2 ~~ 4			+	+
307 : 317	LFO 2	! ( Same as LE Bytes)	FO 1 (296 ~~ 306) )		See above 14 parameters. ParamID = 3B
318					See above 14
: 328	LFO 3 (11 E		FO 1 (296 ~~ 306) )		parameters. ParamID = 3C
329	+			·	See above 14
: 339	LFO 4   (11 B	: ( Same as LE Bytes)	FO 1 (296 ~~ 306) )		parameters. ParamID = 3D
OS	C COMMON PI	TCH MODULATION		+	
340	+   JS(+X	) INTENSITY	C4~~18 : -60~~24	+	29,04
341	+   JS(-X	) INTENSITY	C4~~18 : -60~~24	·÷	29,05
342 b		BEND STEP	·	+	29,06
b	4~~7  J	S(-X)	+ 00:Continuous, 01:1/8,	02:1/4, 03:1/2, 05~~0F:01	~~12 ++   29,07
343	+	N PITCH AMS	00~~29 : *2-1	+	29,02
344		INTENSITY	9D~~63 : -99~~99	·÷ 	29,03
PO	 RTAMENTO	·		· <del>+</del>	<del>-</del>
b	+ it0   ENABL	E SW	0:OFF, 1:ON	+	<del>-</del>   29,08
345 b		RED MODE SW	0:OFF, 1:ON	· <del>+</del>	29,09
346		MENTO TIME	00~~63 : 0~~99	÷	<del>-</del>
347	   TIME	AMS	 00~~29 : *2-1	+	   29,0B
348			9D~~63 : -99~~99		29,0C
	<del>-</del>		+	·+	+
349	OSCI	УРЕ		Model, OA:Reed Model,	
350	OCTAV	'E	00:-2[32'], 01:-1[16']		2A,00
 351	+   TRANS	POSE	F4~~0C : -12~~12	+	2A,01
352	   TUNE	·i	CE~~32 : -50~~50 [cent]		   2A,02
353	+   FREQU	JENCY OFFSET	9C~~64 : -10.0~~10.0 [H		   2A,03
354	PITCH	I 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		NTENSITY	9D~~63 : -99~~99	·+ 	2A,08
359		1 INTENSITY AMS	00~~29 : *2-1	Alternate Modulation	+ 2A,09
360	<del>-</del>	INTENSITY	9D~~63 : -99~~99	· <del>+</del> 	++   2A,0A
	   PITCH		00~~29 : *2-1		
				+	++

362	INTENSITY	<u>KORG</u> 9D~~63 : −99~~99	TRITON-Rack MIDI Implementation	Revision 1.3 (J
363				
: 400	OSC SET 38 bytes (Par	ameters are determined by	OSC TYPE. See [Table 2-	-2].)
OSC 2	-+			
401	OSC TYPE	(SingleSize Only) 00:Sta 03:Resonance, 04:Ring Mc 07:Organ Model, 08:E.Pia		D2:VPM, 29,01 C Mod,
 402 : 452	OSC 2 ( Much the same as C (51 Bytes)	SC 1 (350 ~~ 400), except	OSC TYPE. )	See above 51 parameters. ParamID = 2B
SUB OS	- <del>-</del>			·÷
 453	-++   OCTAVE	00:-2[32'], 01:-1[16']	  , 02:0[8'], 03:1[4']	+
 454	-+	F4~~0C : -12~~12	-+	   2C,01
 455	TUNE	CE~~32 : -50~~50 [cent]	' -+ I	   2C,02
 456	FREQUENCY OFFSET	9C~~64 : -10.0~~10.0 [H		   2C,03
		9C000410.00010.0 [H	12 J -+	
457	PITCH SLOPE CENTER KEY	00~~7F : C-1~~G9		2C,04
 458	-+	CE~~64 : -1.00~~2.00		2C,05
 459	-+	CE~~64 : -1.00~~2.00	-+ 0.01 by step.	+   2C,06
 460	-+	00~~29 : *2-1	Alternate Modulation	   2C,07
 461	-++   INTENSITY	9D~~63 : -99~~99	- <del>+</del> 	20,08
 462	-++   AMS 1 INTENSITY AMS	00~~29 : *2-1	-+	   2C,09
 463		9D~~63 : -99~~99	- <del>+</del> 	+
 464		00~~29 : *2-1		   2С,0В
 465		9D~~63 : -99~~99	-+ 	+   2C,0C
 466		0:Saw, 1:Square, 2:Tr	-+	
	-++ GENERATOR	0.5aw, 1.5quare, 2.11		+
 467		0:THRU, 1:LPF, 2:HPF, 3		+
	NOISE FILTER TYPE		) · DPF -+	2D,01
468 	FILTER INPUT TRIM		  -  -	2D,02
469 	FILTER FREQUENCY	00~~63 : 00~~99	 -+	2D,03
460 	FREQUENCY AMS 1	00~~29 : *2-1	Alternate Modulation	2D,04 +
471 		9D~~63 : -99~~99	 -+	2D,05 
472 	FREQUENCY AMS 2	00~~29 : *2-1	Alternate Modulation	2D,06 +
473 	INTENSITY   -+	9D~~63 : -99~~99	 -+	2D,07
474 	FILTER RESONANCE	00~~63 : 00~~99	 -+	2D,08
OSC MI	XER  -+		-+	
475	OSC 1 -> Mixer1	00~~63 : 00~~99		2E,00
 476	  -+	00~~29 : *2-1	- +	   2E,01
170  477		9D~~63 : -99~~99	-+	+   2E,02
477  478	 -++   TMIENSTII		·+	+
478 : 480 	OSC 1 -> Mixer2 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	parameters. SUB ID = 03~~05
481 : 483	OSC 2 -> Mixer1 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 06~~08
 484 : 486	OSC 2 -> Mixer2 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 09~~0B
 487	-÷ 			See above 3

			KORG	TRITON-Rack MIDI Implementation	Revision 1.3
: 492		SUB OSC -> Mixer2 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	parameters. SUB ID = 0F~~1
493 : 495		Noise -> Mixerl (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 12~~1
496 : 498		Noise -> Mixer2 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 15~~1
499 : 501	+	Feedback -> Mixerl (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 18~~1
502 : 504		Feedback -> Mixer2 (	Same as OSC 1 -> Mixer1	(475 ~~ 477) )	See above 3 parameters. SUB ID = 18~~11
k	oit0	(INPUT SW) OSC 1	1	1 Fixed ( Means Ena	ble )
	+ oit1	OSC 2	1	1 Fixed ( Means Ena.	 ble )
505 k	+ oit2	SUB OSC	1	1 Fixed ( Means Ena	 ble )
 k	+ oit3	Noise	 1	1 Fixed ( Means Ena	ble )
 FI	+ LLTER	ROUTING		+	
	:	ROUTING	0:Serial 1, 1:Serial 2	. 2:Parallel	 2F,00
506	+		0:OFF, 1:ON	+	   2F,01
	+ ILTER	·	·	+	
507	+ 	- 	0:LPF(A), 1:HPF(A), 2:E	PF(A). 3:BRF(A). 4:Dua	 lBP(A/B)  30,00
 508	ا + ا	INPUT TRIM	00~~63 : 00~~99	+	30,01
 509	 + 	FILTER FREQUENCY	00~~63 : 00~~99	¦	30,01
	ا +ا ا			 	
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	n   30,07
 515	+ 	INTENSITY	9D~~63 : -99~~99	+	30,08
 516	+ 	FILTER AMS 1	00~~29 : *2-1	Alternate Modulation	n   30,09
 517	+ 	INTENSITY	9D~~63 : -99~~99	+	+   30,0A
 518	;   	FILTER AMS 2	00~~29 : *2-1	Alternate Modulation	n   30,0B
 519	ڼــــــ ا	INTENSITY	9D~~63 : -99~~99	÷ 	+   30,0C
 520	ڼــــــ ا	FILTER RESONANCE	 00~~63 : 00~~99	÷	
 521	   	RESONANCE AMS	00~~29 : *2-1	Alternate Modulation	
 522	   	INTENSITY	9D~~63 : -99~~99	+	+   30,0F
 523	   	B:INPUT TRIM	00~~63 : 00~~99	¦	33,01
 524	+   	B:FILTER FREQUENCY	00~~63 : 00~~99	¦	32,00
525		B:FREQ. KBD TRACK KEY LOW	00~~7F : C-1~~G9		32,02
 526	+ 	KEY HIGH	00~~7F : C-1~~G9	<u> </u>	32,03
527	+	RAMP LOW	9D~~63 : -99~~99	   	32,04
 528	+ 	RAMP HIGH	9D~~63 : -99~~99	[	32,05
 529	 	B:FREQ. EG INTENSITY	9D~~63 : -99~~99	Alternate Modulation	n   32,06
 530	+ 	B:FREQ. AMS 1 INT.	9D~~63 : -99~~99	Alternate Modulation	n   32,07
 531	   	B:FREQ. AMS 2 INT.	9D~~63 : -99~~99	Alternate Modulation	n   32,08
 532	   	B:FILTER RESONANCE	00~~63 : 00~~99	+	   32,09
533	+ 	B:RESONANCE INT.	9D~~63 : -99~~99	+Alternate Modulation	

	+	<u>KORU</u>	TRITON-Rack MIDI Imp	+	Revision 1.3 (
534 :	   FILTER 2 ( Same as	FILTER 1 (507 ~~ 533) )		See above 2	7 parameters.
560	(27 Bytes)			ParamID = 3	1 or (B:) 33
AMPL	IFIER 1		+	· 	+
561	AMP LEVEL	00~~63 : 00~~99	Ĭ		34,00
562	KEYBOARD TRACK KEY LOW	00~~7F : C-1~~G9			34,01
563	KEY HIGH	00~~7F : C-1~~G9	ļ		34,02
564	RAMP LOW	9D~~63 : -99~~99	† 		34,03
565	+	9D~~63 : -99~~99	†		34,04
566	+	00~~04 : EG1~~4, AmpEG	† 		+   34,05
567	(Reserved)	+   99	99 Fixed		<del>+</del>
568	+	00~~29 : *2-1	+   Alternate M	odulation	34,06
569	+   INTENSITY	+   9D~~63 : -99~~99	<del>+</del> 		34,07
570	+	·	+	See above 8	parameters.
: 578	AMPLIFIER 2 ( Same ( ) ( )	e as AMPLIFIER 1 (561 ~~ 5	69))	PARA No. :3	4,08~~34,0F
AMP I	+ EG			÷	
 579	+   (Reserved)	+   0	+   0 Fixed		+ 
580	<del>-</del>	00~~63 : 0~~99	÷ 		35,00
 581	÷	00~~63 : 0~~99	÷ 		<del>-</del>
582	÷	00~~63 : 0~~99	÷ 		<del>-</del>
583	÷   BREAK LEVEL		÷ 		35,03
 584	+   SLOPE TIME	00~~63 : 0~~99	÷ I		<del>-</del>
 585	÷	00~~63 : 0~~99	÷ 		<del>-</del>
 586	+   RELEASE TIME	00~~63 : 0~~99	÷ 		<del>-</del>
587	+   (Reserved)	   0	+   0 Fixed		<del>;</del>
 588	+	00~~29 : *2-1	+	odulation	35,07
 589	+   INTENSITY	   9D~~63 : -99~~99	÷ I		35,08
590	VELOCITY CONTROL	   9D~~63 : -99~~99	÷		35,09
591	<del></del>	00~~29 : *2-1	Alternate M	odulation	+   35,0A
592	INTENSITY		<del>;</del> 		+   35,0B
 593	+   TIME AMS 2	00~~29 : *2-1	+   Alternate M	odulation	<del>-</del>
 594	÷		<del>;</del> 		; 35,0D
 595	÷		<del>;</del> 		+   35,0E
 596	÷		<del>;</del> 		+   35,0F
	 RELEASE INTENSITY		+ 		35,10
OUTPU	+ UT LEVEL/PAN		÷		+
	+	00~~7F : L000~~R127	İ		34,10
	PAN AMS	00~~29 : *2-1	+   Alternate M		<del></del>   34,11
					34,12
	OUTPUT LEVEL		‡ 		<del>+</del>
 602	<del>-</del>		<u>+</u>		
603	SEND 1  +	00~7F : 0~127   00~~7F : 0~~127	 		+   34,15
	1	+	+		+

[ TABLE 2-2 ] MULTI OSCILLATOR PARAMETERS ( for Optional EXB-MOSS )
No.: No. in the OSC SET (38 bytes).
SUB ID: Right side of '/' is SUB ID for OSC 2.

| No.(bit)| PARAMETER | DATA(Hex): VALUE | DESCRIPTION | SUB ID |

0:St	andard		Para	mID = 3E
	WAVE			-+
00 	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	 	05/1B
06	WAVEFORM WAVEFORM	9D~~63 : -99~~99		06/10
07	MOD. LFO	00~~03 : LFO 1 ~~ 4	Alternate Modulation	07/10
08	INTENSITY	9D~~63 : -99~~99	1	08/1E
 09	-+   AMS	00~~29 : *2-1	Alternate Modulation	-+   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	Alternate Modulation	- <del>-</del>   0C/22
 13		9D~~63: -99~~99	· <del>†</del> 	0D/23
 14		9D~~63: -99~~99	÷	-+   0E/24
 15	-+	0:Clip, 1:Reso	· <del> </del>	-+   0F/25
 16	-++   SHAPE	00~~63 : 0~~99	. <del> </del>	10/26
 17	-+	00~~29 : *2-1	Alternate Modulation	11/27
	-+		+   Alternate Modulation	+
18 	INTENSITY	9D~~63 : -99~~99 	 	12/28
19 	BALANCE	00~~63 : 0~~99	+	13/29
20	BALANCE AMS	00~~29 : *2-1	Alternate Modulation	14/2A
21 	INTENSITY	9D~~63 : -99~~99 	· <del> </del>	15/2B -+
22~~37 	(Reserved)	0	0 Fixed +	 -+
1:Co	mb Filter -++		Para: 	mID = 3F -+
00	INPUT WAVE	0:OSC2(1)+Noise, 1:Sub 3:Filter2+Noise, 4:Puls	OSC+Noise, 2:Filter1+Noise, se 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	÷	- <del>-</del>   03/11
 04		00~~29 : *2-1	Alternate Modulation	- <del></del>   04/12
 05	-++   INTENSITY	9D~~63 : -99~~99	+	05/13
	-+		; 	-+
	FEEDBACK	00~~63 : 0~~99		06/14
06 	-+		:	-+
06  07 	AMS 1	00~~29 : *2-1	Alternate Modulation	-+   07/15
	AMS 1   INTENSITY	9D~~63 : -99~~99	Alternate Modulation  - 	÷
 07 	-+	9D~~63 : -99~~99  00~~29 : *2-1	Alternate Modulation  Alternate Modulation  Alternate Modulation	   08/16
 07  08 	INTENSITY	9D~~63 : -99~~99	÷   	+   08/16 -+   09/17 +
07 08  09	INTENSITY   AMS 2	9D~~63 : -99~~99  00~~29 : *2-1	÷   	08/16   08/16   09/17   09/17   0A/18
07  08  09 	INTENSITY    AMS 2  INTENSITY    HIGH DAMP	9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99 00~~29 : *2-1	÷   	08/16 09/17 09/17 00/18
07 08 09 10 11	INTENSITY    AMS 2    INTENSITY    INTENSITY    HIGH DAMP  HIGH DAMP	9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99	Alternate Modulation	07/15   08/16   09/17 +   0A/18   0B/19   0C/1A

	++   CARRIER			
00	WAVE   ++	0:Saw, 1:Square, 2:Tr	iangle, 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	Ī	05/1E
06	WAVE SHAPE	00~~63 : 0~~99	ļ	06/1F
07	SHAPE AMS 1	00~~29 : *2-1	Alternate Modulation	07/20
08	INTENSITY	9D~~63 : -99~~99		08/21
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		0C/25
	++   MODULATOR		·+	·÷; 
13	FREQUENCY COARSE	00~~10 : 0.5~~16		0D/26
14	FREQUENCY FINE	CE~~32 : -50~~50	<u> </u>	0E/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	Ī	12/2B
19	WAVE	0:Saw, 1:Square, 2:Tr 4:OSC2(1), 5:Sub OSC, 6	iangle, 3:Sine :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	0 Fixed	
3:Res	++ onance		·+	.+
			Paran	nID = 41
0.0	++   INPUT	0.0000(1) 1.01		-+ <del>;</del> 
00	+		Param ::Noise, 3:Filter1, 4:Filter2	00/20
01	INPUT WAVE INPUT WAVE LEVEL	00~~63:0~~99	:Noise, 3:Filter1, 4:Filter2	00/20
01	+	00~~63 : 0~~99 00~~29 : *2-1		00/20
01	INPUT WAVE INPUT WAVE LEVEL	00~~63:0~~99	:Noise, 3:Filter1, 4:Filter2	00/20
01	INPUT WAVE INPUT WAVE LEVEL LEVEL AMS 1	00~~63 : 0~~99 00~~29 : *2-1	:Noise, 3:Filter1, 4:Filter2	00/20
01	INPUT WAVE   INPUT WAVE LEVEL   LEVEL AMS 1   INTENSITY	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99	:Noise, 3:Filter1, 4:Filter2	00/20
01 02 03 04	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1	:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24
01 02 03 04	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99	:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24   05/25
01 02 03 04 05	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99	:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24   05/25   06/26
01 02 03 04 05 06	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE  FREQUENCY COARSE	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99 00~~0F : 01~~16 00~~29 : *2-1 F1~~0F : -15~~15	:Noise, 3:Filter1, 4:Filter2    Alternate Modulation   Alternate Modulation   Alternate Modulation   Alternate Modulation	00/20   01/21   02/22   03/23   04/24   05/25   06/26   07/27
01 02 03 04 05 06 07	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE  FREQUENCY COARSE  FREQUENCY AMS	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99 00~~0F : 01~~16 00~~29 : *2-1 F1~~0F : -15~~15	2:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24   05/25   06/26   07/27   08/28
01 02 03 04 05 06 07 08	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE  FREQUENCY COARSE  FREQUENCY AMS  INTENSITY	00~~63 : 0~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~29 : *2-1 9D~~63 : -99~~99 00~~63 : 0~~99 00~~0F : 01~~16 00~~29 : *2-1 F1~~0F : -15~~15	:Noise, 3:Filter1, 4:Filter2    Alternate Modulation   Alternate Modulation   Alternate Modulation   Alternate Modulation	00/20   01/21     02/22     03/23     04/24     05/25     06/26     07/27     08/28     09/29
01 02 03 04 05 06 07 08 09	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE  FREQUENCY COARSE  FREQUENCY AMS  INTENSITY  FREQUENCY FINE	00~~63 : 0~~99  00~~29 : *2-1  9D~~63 : -99~~99  00~~29 : *2-1  9D~~63 : -99~~99  00~~63 : 0~~99  00~~0F : 01~~16  00~~29 : *2-1  F1~~0F : -15~~15  9D~~63 : -99~~99	:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24   05/25   06/26   07/27   08/28   09/29   0A/2A
01 02 03 04 05 06 07 08 09 10	INPUT INPUT WAVE  INPUT WAVE LEVEL  LEVEL AMS 1  INTENSITY  LEVEL AMS 2  INTENSITY  BPF 1  RESONANCE  FREQUENCY COARSE  FREQUENCY AMS  INTENSITY  FREQUENCY FINE  LEVEL  BPF 2	00~~63 : 0~~99  00~~29 : *2-1  9D~~63 : -99~~99  00~~29 : *2-1  9D~~63 : -99~~99  00~~63 : 0~~99  00~~0F : 01~~16  00~~29 : *2-1  F1~~0F : -15~~15  9D~~63 : -99~~99  00~~63 : 0~~99	2:Noise, 3:Filter1, 4:Filter2	00/20   01/21   02/22   03/23   04/24   05/25   06/26   07/27   08/28   09/29   0A/2A   0B/2B   0B/2B

15	INTENSITY	F1~~0F : -15~~15	G TRITON-Rack MIDI Implementation	Revision 1.3 (Ju
  	++ FREQUENCY FINE	9D~~63 : -99~~99		10/30
17	LEVEL	00~~63 : 0~~99	- <del>;</del>	11/31
10	BPF 3		_+	+
18	RESONANCE	00~~63 : 0~~99	 - <del>!</del>	12/32
19 	FREQUENCY COARSE	00~~0F: 01~~16	- <del> </del>	13/33
20	FREQUENCY AMS	00~~29 : *2-1	Alternate Modulation	14/34
21	INTENSITY	F1~~0F: -15~~15	- <del> </del>	15/35
22	FREQUENCY FINE	9D~~63 : -99~~99	 	16/36   ++
23 	LEVEL   ++   BPF 4	00~~63 : 0~~99	  -+	17/37
24	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	1A/3A
27 	INTENSITY	F1~~0F : -15~~15	i -+	1B/3B
28	FREQUENCY FINE	9D~~63 : -99~~99	    -	1C/3C
29 	LEVEL	00~~63 : 0~~99		1D/3D
30	RESONANCE MODULATION AMS	00~~29 : *2-1	Alternate Modulation	1E/3E
31	INTENSITY	9D~~63 : -99~~99	-+	1F/3F
32~~37	(Reserved)	0	0 Fixed	
4:Rin	g Modulation		Param	++ ID = 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:T	riangle, 3:Sine	++   01/0A
02	MODULATION DEPTH DEPTH	00~~63 : 0~~99		02/0B
03	DEPTH AMS 1	00~~29 : *2-1	Alternate Modulation	03/0C
04	INTENSITY	9D~~63 : -99~~99	- <del>+</del>	++   04/0D
05	DEPTH AMS 2	00~~29 : *2-1	Alternate Modulation	++   05/0E
06	INTENSITY	9D~~63 : -99~~99		+
07	++   TYPE	00~~01 : 1~~2	-+	06/0F
	!			06/0F   ++   07/10
08	WAVE EDGE	00~~63 : 0~~99		++
08	<del></del>	0	 	07/10
09~~37	WAVE EDGE		0 Fixed	07/10
09~~37 5:Cro	WAVE EDGE	0	0 Fixed	07/10     08/11             mID = 43
09~~37 	WAVE EDGE     (Reserved)	0:0SC2(1), 1:Sub OSC,	0 Fixed	07/10   08/11   08/11   08/11   08/11   08/11   00/08   00/08
09~~37 5:Cro	WAVE EDGE     (Reserved)     ss Modulation     WAVE     INPUT WAVE     CARRIER WAVE     MODULATION DEPTH	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T	0 Fixed	07/10     08/11             00/08     01/09
09~~37 	WAVE EDGE     (Reserved)     SS Modulation     WAVE     INPUT WAVE     CARRIER WAVE     MODULATION DEPTH     DEPTH	0:0SC2(1), 1:Sub OSC,	0 Fixed 	07/10   08/11   08/11   08/11   08/11   08/11   00/08   01/09   02/0A
09~~37 5:Cro 00 01	WAVE EDGE     (Reserved)     ss Modulation     WAVE     INPUT WAVE     CARRIER WAVE     MODULATION DEPTH	0:0SC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T	0 Fixed	07/10     08/11         mID = 43     00/08     01/09
09~~37 5:Cro 00 01 02	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T 00~~63: 0~~99 00~~29: *2-1	0 Fixed 	07/10   08/11   08/11   08/11   08/11   08/11   08/11   08/11   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10   09/10
09~~37 5:Cro 00 01 02 03	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63:0~~99  00~~29:*2-1  9D~~63:-99~~99	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine	07/10   08/11   08/11     08/11     08/11     08/11     09/08     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09     01/09
09~~37 5:Cro 00 01 02 03 04	WAVE EDGE     (Reserved)     ss Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63: 0~~99  00~~29: *2-1  9D~~63: -99~~99  00~~29: *2-1	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine	07/10   08/11   08/11   08/11   08/11   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08   09/08
09~~37 5:Cro 00 01 02 03 04 05	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63:0~~99  00~~29:*2-1  9D~~63:-99~~99  00~~29:*2-1  9D~~63:-99~~99	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine	07/10   08/11   08/11      mID = 43      00/08   01/09      03/0B      03/0B      04/0C      05/0D      06/0E
09~~37 5:Cro 00 01 02 03 04 05 06 07 08~~37	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63:0~~99  00~~29:*2-1  9D~~63:-99~~99  00~~29:*2-1  9D~~63:-99~~99	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine  Alternate Modulation  Alternate Modulation  O Fixed	07/10   08/11   08/11        08/11     00/08     01/09     02/0A     03/0B     04/0C     05/0D     06/0E     07/0F
09~~37 5:Cro 00 01 02 03 04 05 06 07 08~~37	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63: 0~~99  00~~29: *2-1  9D~~63: -99~~99  00~~29: *2-1  9D~~63: -99~~99	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine  Alternate Modulation  Alternate Modulation  O Fixed	07/10   08/11   08/11      mID = 43      00/08   01/09      03/0B      03/0B      04/0C      05/0D      06/0E
09~~37 5:Cro 00 01 02 03 04 05 06 07 08~~37	WAVE EDGE     (Reserved)     SS Modulation     WAVE	0:OSC2(1), 1:Sub OSC, 0:Saw, 1:Square, 2:T  00~~63:0~~99  00~~29:*2-1  9D~~63:-99~~99  00~~29:*2-1  9D~~63:-99~~99  00~~63:0~~99	Paras  2:Noise, 3:Filter1, 4:Filter2  riangle, 3:Sine  Alternate Modulation  Alternate Modulation  O Fixed	07/10   08/11   08/11        08/11     00/08     01/09     02/0A     03/0B     04/0C     05/0D     06/0E     07/0F

	.+	KORO	TRITON-Rack MIDI Implementation	Revision 1.
02	WAVE EDGE	00~~63 : 0~~99		02/05
03~~37	(Reserved)	0	0 Fixed	
7:Org	gan Model		+ Para	amID = 45
00	DRAWBAR 1 WAVE	0:Sine1, 1:Sine2, 2:S	ine3, 3:Triangle	00/19
01	HARMONICS COARSE	00~~0F: 1('16)~~16('1)		01/1A
02	HARMONICS FINE	9D~~63 : -99~~99		02/1B
03	LEVEL	00~~63 : 0~~99	+ 	03/1C
04	LEVEL AMS	00~~29 : *2-1	Alternate Modulation	04/1D
05	INTENSITY	9D~~63 : -99~~99	<del>*</del> 	05/1E
06	PERCUSSION LEVEL	00~~63 : 0~~99	+ 	06/1F
07	DRAWBAR 2 WAVE	0:Sine1, 1:Sine2, 2:S	ine3, 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	<u>+</u>	0A/23
11	LEVEL AMS	00~~29 : *2-1	+   Alternate Modulation	0B/24
12	INTENSITY	9D~~63 : -99~~99	<del>+</del> 	0C/25
13	PERCUSSION LEVEL	00~~63 : 0~~99	+ 	0D/26
14	DRAWBAR 3 WAVE	0:Sine1, 1:Sine2, 2:S	+ine3, 3:Triangle	0E/27
15	HARMONICS COARSE	00~~0F: 1('16)~~16('1)	+ 	+   0F/28
 16	HARMONICS FINE	9D~~63 : -99~~99	+ 	10/29
17	LEVEL	00~~63 : 0~~99	<u>+</u>	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	LEVEL AMS	00~~29 : *2-1	Alternate Modulation	17/30
24	INTENSITY	9D~~63 : -99~~99	<u></u>	18/31
25~~37	(Reserved)	0	0 Fixed	
8:E.P	Piano Model		Para	amID = 46
00	HAMMER FORCE	00~~63 : 0~~99		00/0E
01	VELOCITY CURVE	FF:Off, 0~~63 : 0~~99	<del>+</del>	01/0F
02	WIDTH	00~~63 : 0~~99	<del>+</del>	02/10
03	CLICK NOISE LEVEL	00~~63 : 0~~99	<del>-</del>	03/11
04	TONE GENERATOR DECAY	00~~63 : 0~~99		04/12
05	RELEASE	00~~63 : 0~~99	<del>+</del>	05/13
06	OVERTONE LEVEL	00~~63 : 0~~99		06/14
07	FREQUENCY	00~~63 : 0~~99		07/15
08	DECAY	00~~63 : 0~~99	<del>+</del>	08/16
09	PICKUP LOCATION	00~~63 : 0~~99		09/17
10	LOCATION AMS	00~~29 : *2-1	+   Alternate Modulation	+   0A/18

11	INTENSITY	9D~~63 : -99~~99	FRITON-Rack MIDI Implementation	Revision 1.3 (Jul.
12	LOW EQ FREQUENCY	00~~31 : 0~~49		OC/1A
13		EE~~12 : -18~~18 [dB]	i 	OD/1B
14~~37		0	   0 Fixed	÷÷ 
9:Bras	+ ss Model	·	 Param	in = 47
00	INSTRUMENT TYPE	00~~02:Brass1~~3, 03~~04	4:Horn1~~2, 05:Reed Brass	00
bit0	JUMP BEND SW JS(+X)	0:OFF, 1:ON		01
bit1	JS(-X)	0:OFF, 1:ON		02
02	BREATH PRESSURE MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	03
03	INTENSITY	9D~~63 : -99~~99		04
04	   AMS 1	00~~29 : *2-1	Alternate Modulation	05
05	   INTENSITY	9D~~63 : -99~~99	<del>,</del> 	06
06	AMS 2	00~~29 : *2-1	Alternate Modulation	++   07
07	intensity	9D~~63 : -99~~99	<del>·</del> 	++
08	(Reserved)	0	0 Fixed	+ <del>-</del>
09	LIP CHARACTER LIP	00~~63 : 0~~99		09
10	AMS	00~~29 : *2-1	Alternate Modulation	0A
11	INTENSITY	9D~~63 : -99~~99	<del> </del>	0B
12~~14	(Reserved)		 	
15	BELL CHARACTER TONE	00~~63 : 0~~99		0C
16	RESONANCE	00~~63 : 0~~99	 	0D
17	BREATH NOISE	00~~63 : 0~~99		OE
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		00~~63 : 0~~99	 	12
32~~37	(Reserved)		+ 	+ 
10:Reed	d Model	·	+Param	++ ID = 48
00	INSTRUMENT TYPE	09~~0A:Flute 1~~2, 0B:Pa	03~~04:Soft Sax 1~~2, , 07:Bassoon, 08:Clarinet, an Flute, 0C:Ocarina, armonica 1~~2, 10:Reed Synth	00
bit0	JUMP BEND SW JS(+X)	0:OFF, 1:ON		01
01 bit1	JS(-X)	0:OFF, 1:ON	+ 	02
02	BREATH PRESSURE MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	03
03	   INTENSITY	9D~~63 : -99~~99	<del>•</del> 	04
04	AMS 1	00~~29 : *2-1	Alternate Modulation	++   05
05	intensity	9D~~63 : -99~~99	<del>·</del> 	06
06	AMS 2	00~~29 : *2-1	Alternate Modulation	07
07	intensity	9D~~63 : -99~~99	<del>·</del> 	08
08~~12	(Reserved)	;i	+ 	+ <del>-</del> 
13	BREATH NOISE	00~~63 : 0~~99	+ 	;   09
	·	· · · · · · · · · · · · · · · · · · ·	, +	++

L4~~25	(Reserved)			
26	REED CHARACTER AMS	00~~29 : *2-1	Alternate Modulation	0A
+ 27	+   INTENSITY	9D~~63 : -99~~99	+	++   0B
    28	BELL CHARACTER   TONE	00~~63 : 0~~99		0C
 29	RESONANCE	 00~~63 : 0~~99	· <del>+</del>	<del>-</del>
30	PEAKING EQ FREQUENCY	00~~31 : 0~~49	<del> </del>	
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		00~~1D : 0~~29	 	++   OF
32   	Q   ++   GAIN	00~~1D : 0~~29  EE~~12 : -18~~18 [dB]	 	++   10
33	(Reserved)		 	+
			 	 ++
34	WAVE SHAPE OFFSET	9D~~63 : -99~~99		11
b0~~6	SHAPE	00~~63 : 0~~99	 	12
bit7	TYPE	0:Clip, 1:Reso	 	13
86	SHAPE AMS	00~~29 : *2-1	Alternate Modulation	14
37	INTENSITY	9D~~63 : -99~~99	<u> </u>	15
11:Pluc	cked String Model		Pai	camID = 49
00	ATTACK LEVEL	00~~63 : 0~~99		00
)1	VELOCITY CTRL	9D~~63 : -99~~99	· <del>-</del>	<del>-</del>
)2   	CURVE UP	00~~63 : 0~~99	÷	02
 )3	VELOCITY CTRL	 9D~~63 : -99~~99	· <del>+</del>	<del></del> <del></del>
	CURVE DOWN	00~~63 : 0~~99	· <del>+</del>	
 )5	VELOCITY CTRL	 9D~~63 : -99~~99	÷	<del>-</del>
<del> </del> )6	NOISE LEVEL	 00~~63 : 0~~99	÷	<del>-</del> <del>-</del>   06
i )7	VELOCITY CTRL	9D~~63 : -99~~99	·÷	<del>-</del> <del>-</del>   07
)8	STRING   PICKING POINT	00~~63 : 0~~99		08
 )9	POINT AMS	00~~29 : *2-1	Alternate Modulation	++   09
.0	INTENSITY	 9D~~63 : -99~~99	·÷ 	++   0A
.1	DISPERSION	00~~63 : 0~~99	·÷	<del>;</del> <del>;</del>   0B
.2	DISPERSION AMS	00~~29 : *2-1	Alternate Modulation	<del>-</del>
.3	INTENSITY	9D~~63 : -99~~99	†	OD
.4	DAMP	00~~63 : 0~~99	+	<del>-</del>
i .5	DAMP KBD TRACK	9D~~63 : -99~~99	+	<del>-</del>
	DAMP AMS	00~~29 : *2-1	Alternate Modulation	10
i .7	INTENSITY	9D~~63 : -99~~99	+	11
.8	DECAY	00~~63 : 0~~99	+	<del>-</del>
i .9	DECAY KBD TRACK	9D~~63 : -99~~99	+	13
	RELEASE	00~~63 : 0~~99		<del>-</del>
·	HARMONICS HARMONICS POINT	00~~63 : 0~~99		15
 22	HARMONICS CTRL	00~~29 : *2-1	÷	<del></del>
 23	INTENSITY	9D~~63 : -99~~99	+	<del>-</del>
·	PICKUP   SW	0:OFF, 1:ON	+	18
<del> </del> 25	LOCATION	00~~63 : 0~~99	+	<del>-</del>   19
	LOCATION AMS	 00~~29 : *2-1	+	<del>-</del>

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27	INTENSITY	9D~~63 : -99~~99	<del>†</del> 	+   1B
28	LOW EQ FREQUENCY	00~~31 : 0~~49		1C
 29	+	EE~~12 : -18~~18 [dB]	+ 	+
30	LOW BOOST	00~~63 : 0~~99	+ 	+   1E
31~~37	(Reserved)	0	0 Fixed	<del>-</del> i
12:Bow	++ wed String Model	·	i	+ ParamID = 4A
	BOW SPEED	+ 	+ 	+
00	MOD. EG	00~~04 : EG 1~~4, AmpEG	Alternate Modulation	00 +
01	INTENSITY	9D~~63: -99~~99	 +	01
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	<u> </u>	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	<del></del>   09
10	INTENSITY	9D~~63 : -99~~99	<del>•</del> 	+   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	+	9D~~63 : -99~~99	<del>·</del> 	+   0E
 15	++   DAMP	00~~63 : 0~~99	i	   OF
16	DAMP KBD TRACK KEY	00~~7F : C-1~~G9	i   	10
17	RAMP LOW	9D~~63 : -99~~99	i 	<del>-</del>   11
18	++   RAMP HIGH	9D~~63 : -99~~99	i	<del>-</del>   12
 19	+	00~~29 : *2-1		<del>-</del>
20	+	9D~~63 : -99~~99	<del>t</del>	+   14
21	DISPERSION	00~~63 : 0~~99	 	   15
22	DISPERSION   	00~~29 : *2-1	      Alternate Modulation	+   16
23	DISPERSION AMS   	9D~~63 : -99~~99	Internace Modulation  - 	+   17
23  24	INTENSITY   	9D~~63 : -99~~99 	 	
	· <del>+</del> <del>-</del>		 	18 +
25 	REFLECTION AMS	00~~29 : *2-1	Alternate Modulation	19
26 	INTENSITY	9D~~63 : -99~~99	 <del> </del>	1A 
27	PEAKING EQ FREQUENCY	00~~31 : 0~~49	 	   1B +
28	Q	00~~1D : 0~~29	 +=========	1C
29	GAIN	EE~~12 : -18~~18 [dB]		1D
30~~37	(Reserved)		   	
	++		·	+

\*2-1: Alternate Modulation Source for MOSS

Modulation Source for MUSS
01 : EG 1,
05 : Amp EG,
09 : LFO 4,
0 : Exp., 0D : Note Split High,
1 : Velocity Hard,
1 : Velocity Hard,
1 : US - Y: CC#02,
1 : Ribbon: CC#16,
1 : KnobMod1: #17 1: Alternate Modulat 00: Off, 04: EG 4, 08: LFO 3, 0C: Note No. Exp., 10: Velocity Med., 14: JS +Y:CC#01, 18: Pedal:CC#04, 03 : EG 3, 07 : LFO 2, 0B : Note No. Linear, 0F : Velocity Soft, 02 : EG 2, 02 : EG 2, 06 : LFO 1, 0A : Portamento, 0E : Note Split Low, 12 : After Touch, 16 : JS +Y & AT/2, 1A : Ribbon +X, 13 : JS X, 17 : JS -Y & AT/2, 1B : Ribbon -X, 1C : Slider:CC#18, 20 : KnobMod4:#21, 1D : KnobMod1:#17, 21 : KnobMod1 [+], 1E : KnobMod2:#19, 22 : KnobMod2 [+], 1F : KnobMod3:#20, 23 : KnobMod3 [+],

24 : KnobMod4 [+], 25 : Damper:#64, 26 : SW 1:CC#80, 27 : SW 2:CC#81, 28 : Foot SW:#82, 29 : MIDI:CC#83

[ TABLE 3 ] 1 COMBINATION PARAMETERS
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
: : 191		FX1~~2 (20Bytes * 2) Return, Chain & EQ (1 (56 Bytes)	6 Bytes)		: : : : : : : :
	ARPEGGI	TATOR PARAMETERS			+
 192		TEMPO	28~~F0 : 40~~240	+	+   09,00
	bit0		0:OFF, 1:ON	¦	+   09,01
193	bit1	ARPEGGIATOR RUN A	0:OFF, 1:ON	¦	+   09,02
	bit2	ARPEGGIATOR RUN B	0:OFF, 1:ON	¦	+   09,03
	ARPEGGI	· <del> </del>		+	+
			00~~FF : 0~~255	+	+   0A,00
	b0~~1		00~~03 : 1~~4	+	+   0A,02
195	b2~~4		0:16T, 1:16, 2:8T, 3:8	+	+   0A,01
	b5	PATTERN NO. MSB	0 or 1	+	÷
 196		GATE	00~~64 : 0~~100[%], 65		+   0A,03
190 197		VELOCITY	01~~7F : 1~~127, 80:Ke		+   0A,04
198		SWING	9C~~64 : -100~~100	+	+   0A,05
	bit0	SORT	0:OFF, 1:ON	! !	+   0A,06
	bit1	LATCH	0:OFF, 1:ON	! !	+   0A,07
199		KEY SYNC.	0:OFF, 1:ON	! !	+   0A,08
	bit3	KEYBOARD	0:OFF, 1:ON 0:OFF, 1:ON	! #	+   0A,09
200		TOP KEY	0.0FF, 1.0N  00~~7F : C-1~~G9	! #	+   0A,0A
200  201		BOTTOM KEY	00~~7F : C-1~~G9	! +	+   0A,0B
201  202		TOP VELOCITY	00%7F : C=1%3G9 01~~7F : 1~~127	! +	÷
202  203		BOTTOM VELOCITY	01~~7F : 1~~127 	! +	0A,0C +
	ARPEGGI	· <del>'</del>	01IF • 1TZ1	+	0A,0D +
204	ARPEGGI				+
:		Same as ARPEGGIATOR A	(194~~203)		0B,00
213 		(10 Bytes)			0B,0D +
		PARAMETERS +   CATEGORY	00~~0F : 0~~15	+	+
214	b0~~3  b4~~7	CATEGORY + MOSS BUS SELECT	00~~0F : 0~~15  00~~07 : TIMBRE1~~8	 	00,00 +
215	υ <del>4</del> ~~/			 +	00,0F
215 		SCALE TYPE	00~~1A: **1-1	 	00,01 +
216 		SCALE KEY	00~~0B : C~~B	 	00,02 +
217 		RANDOM INTENSITY	00~~07 : 0~~7	Normal = 0 +	00,03
0.7.	b0~~5	SW 1 ASSIGN TYPE	00~~0C: **1-2	+	00,04
218	bit6	SW1 TOGGLE/MOMENTARY	0:Toggle, 1:Momentary	ļ.	00,08

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	b0~~5	+   SW 2 ASSIGN TYPE	00~~0C : **1-2	   00,05
219	bit6	+	0:Toggle, 1:Momentary	00,09
	bit7	++   SW 2 ON/OFF	0:OFF, 1:ON	00,07
	b0~~6	+   KNOB 1 ASSIGN TYPE	00~~7C : **1-3	00,0A
220	bit7	REALTIME CONTROLS	0:A, 1:B **3-2	00,0E
001		KNOB 2 ASSIGN TYPE	00~~7C : **1-3	00,0B
221	bit7	REALTIME CONTROLS MSB	0:A or B, 1:C **3-2	00,10
222		KNOB 3 ASSIGN TYPE	00~~7C : **1-3	00,0C
223		KNOB 4 ASSIGN TYPE	00~~7C : **1-3	00,0D
 T	IMBRE 1	PARAMETER		
224		PROGRAM NO.	00~~7F : 00~~127	n,00
225		PROGRAM BANK	00~~10 : Bank A~~g(d)	n,00
226	b0~~b4	MIDI CHANNEL	00~~0F : MIDI Channel 1~~16, 10:Global Channel	n,04
220	b5~~b7	STATUS	0:INT, 1:Off, 2:EXT, 3:EX2	n,03
227		BANK SELECT MSB	00~~7F: 00~~127   Available only when status is EXT2	n,05
228		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	FB50***4B0: -1200***1200+	11,06
234		DELAY START	00~~60,61 : **1-5	n,0D
235		PAN	00:RND, 01~~7F : L001~~R127	n,01
236		SEND 1 LEVEL	00~~7F : 00~~127	n,29
237		SEND 2 LEVEL	00~~7F : 00~~127	n,2A
238	b0~~ 2	DRUMKIT IFX4 Patch	·	n,2E
	b3~~ 5	DRUMKIT IFX5 Patch		n,2F
	b0~~ 2	DRUMKIT IFX1 Patch	0:IFX1, 1:IFX2, 2:IFX3, 3:IFX4, 4:IFX5, 5:L/R	n,2B
239	b3~~ 5	DRUMKIT IFX2 Patch		n,2C
	b6~~ 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	AFTER TOUCH FILTER	0:DIS, 1:ENA	n,10
	bit2	DAMPER FILTER	0:DIS, 1:ENA	n,11
241	bit3	PORTAMENTO FILTER	0:DIS, 1:ENA	n,12
241	bit4	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	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	bit3	ASSIGN KNOB 4 FILTER	0:DIS, 1:ENA	n,1A
<b>44</b> 2	bit4	ASSIGN SW 1 FILTER	0:DIS, 1:ENA	n,1B
	bit5	++   ASSIGN SW 2 FILTER	0:DIS, 1:ENA	n,1C

			KORG TRITON-Rack MIDI Implementation	on Revision 1.3 (Jul.5.'01)		
	bit6	FOOT PEDAL/SW FILTER	0:DIS, 1:ENA	n,1D		
	bit7	OTHER CONTROL FILTER	0:DIS, 1:ENA	n,1E		
İ	b0,1	FORCE OSC MODE	0:Program, 1:Poly, 2:Mono, 3:Mono Legato	n,07		
242	b2,3	OSC SELECT	0:BOTH, 1:OSC1, 2:OSC2	n,08		
243	b4,5	ARPEGGIATOR ASSIGN	0:OFF, 1:A, 2:B	n,27		
	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	n,1F		
246		KEY Z BOTTOM	00~~7F : C-1~~G9	n,22		
		KEY Z TOP SLOPE	0~~F: **3-1	n,20		
247	b4~~7	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		
		VEL Z TOP SLOPE		n,24		
250	b4~~7		0~~F : 0~~120 (Vel fade slope = Para valu	n,25		
251		MOSS VOICE	00~~06: 0~~6	n,30		
r	IMBRE 2	+ 2~~8 PARAMETERS				
252				n,00		
447		Same as TIMBRE 1 (224 (28 * 7 = 196 Bytes)	~~251)	n,30		
**3-1:0:0						

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

No.	No. : No. in the GLOBAL DUMP DATA.					
No.	(bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION		
	GLOBAL 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			
	b0~~2	( RESERVED )				
04	bit3	PROG AUTO ARP	0:OFF, 1:ON			
	bit4	COMBI AUTO ARP	0:OFF, 1:ON			
05		( RESERVED )				
06		( RESERVED )				
07		( RESERVED )				
08		USER SCALE (Octave)	9D~~63 : -99~~99 [Cent]			
199		( 12*16 Bytes )	[Cent]			
200		USER SCALE ( All Notes )	9D~~63 : -99~~99 [Cent]			
327		( 128 Bytes )	[Cenc]			
328		PROG CATEGORY NAME	20~~7F [ ASCII CODE ]			
583		( 16*16 Bytes )	[ ASCII CODE ]			
584		COMBI CATEGORY NAME	20~~7F [ ASCII CODE ]			

839	( 16*16 Bytes )				
AUDIC	INPUT 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			
AUDIC	AUDIO INPUT 2				
845   :   849	Same as AUDIO INPUT	L (840~~844)			

[ TABLE 5 ] Parameter No. at COMBINATION PLAY mode  $n(=0\sim7)$ : Timbre  $1\sim8$ 

$n(=0\sim7)$ : Timbre $1\sim8$				
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 PARAMET	+ ER			
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 PA	+ RAMETER	·		
PATTERN NO.	0~~147 : 0~~327		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 PA	RAMETER	<del></del>		
Same as ARPE	GGIATOR-A PARAMETER		0A,00~~09	
SWITCH PARAMETER				
SW 1 ON/OFF	+		0B,00	
SW 2 ON/OFF	+		0B,01	
REALTIME CONTROLS	0:A, 1:B, 2:C		0B,02	

[ TABLE 6 ] Parameter No. at PROGRAM PLAY mode

- 4		L	<del>-</del>	
į	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No.
į	PERFORMANCE EDITOR			
į	OCTAVE	FD~~03 : -3~~3		00,00
į	PITCH STRETCH	F4~~0C : -12~~12	Only for PCM program	00,01
j	OSC BALANCE	F6~~0A: -10~~10		00,02

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 PARAM	METER Under Paramet	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.	0~~147 : 0~~327		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 Paramet	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, 2:C		05/06,02

## [ TABLE 7 ] 1 DRUMKIT PARAMETERS

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	PARAMETERS	,	+
16		HIGHER BANK	0:ROM, 1:RAM, ~~???   ??? is depend on PCM option.	00/0B
17	bit0	HIGHER START OFFSET	0:OFF, 1:ON	02/0D
17	bit1	HIGHER REVERSE	0:OFF, 1:ON	03/0E
18  19	   	HIGH SAMPLE NO(MSB)   HIGH SAMPLE NO(LSB)	· 00~~19C : 00~~412 Higher Vel's Drumsample	01/0C
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	(7) (Above Parameter's right side of '/' is PARA No.	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   17
42		SEND 1 LEVEL	00~~7F: 00~~127	18
43		SEND 2 LEVEL	00~~7F: 00~~127	+   19

44		+   EXCLUSIVE GROUP	00:Off, 01~~7F : 001~~	+ 127	1A	
	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	47   ( RESERVED )					
K	KEY=C#-1~~G9 PARAMETERS					
48			00 : 1F			

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

No.	(bit)	PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	PARA No
00 : 15		ARP. NAME (Head) : ARP. NAME (Tail)	20~~7F		
	b0~~1	OCTAVE MOTION	OTION   0:Up, 1:Down, 2:Both, 3:Parallel		01
	b2~~3	TYPE	0:As Played,1:As Played(Fill),2:Running Up,3:Up&Down		00
10	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	: Same as TONE 00 NOTE NO		05 : 05		
 S	+ TEP 01	PARAMETERS		+	
32		PITCH OFFSET	D0~~30 : -48~~48		06
33		GATE	0:Off, 01~~64 : 1~~100		07
34		VELOCITY	01~~7F : 1~~127, 80:Key	 ,	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~~	48 PARAMETERS		++	
38 : 319		Same as STEP 01 (32~~ (6 * 47 = 282 Bytes)	37)		06 : 15
	<del>i</del>		0:A, 1:B	It's not dump data.	16

### [ TABLE 9 ] Arpegiator Parameter No. at GLOBAL

+   PARAMETER	DATA(Hex) : VALUE	DESCRIPTION	+   PARA No.
PATTERN NO.	0~~147 : 0~~327		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		68,07
KEY SYNC.	0:OFF, 1:ON		68,08
KEYBOARD	0:OFF, 1:ON		68,09

+-----+

[ TABLE 10 ]	MULTI DATA PA	ARAMETERS		
00 : 03	EVENT DATA START ADDRESS(MSB)   : (4 Bytes)   EVENT DATA START ADDRESS(LSB)			
04 : 07	EVENT DATA FREE AREA START ADDRESS(MSB) : (4 Bytes) EVENT DATA FREE AREA START ADDRESS(LSB)			
08 : 11	MULTI 00 EVENT DATA ADDRESS(MSB) : (4 Bytes) MULTI 00 EVENT DATA ADDRESS(LSB)			
12 : 807	MULTI 001~~199, EVENT DATA ADDRESS Same as MULTI 00 EVENT (08~~11) ( 4 * 199 = 796 Bytes)			
808	CURRENT MULTI NO.	00~~C7 : 00~~199		
809	CURRENT PAT NO.	00~~F9 : 00~~249		
810	CURRENT FX MULTI NO.			
811	VALID MULTI	+		
812	VALID MULTI NO.	+		
: 1011	(200 Bytes) 00~~C7 : 00~~19			
[ TABLE 11 ]	CUE LISTS DA	га		
No. (bit)		DATA(Hex) : VALUE		
	ST 0 PARAMETERS			
0	TEMPO	28~~F0 : 40~~240		
1	TEMPO MODE	0:AUTO, 1:MANUAL		
2	+			
	ST 0 STEP 1			
3	SONG NO.	00~~FF: 00~~255 0~~C7: 0~~199 = Song No. FE: 254 = Continue FF: 255 = End		
bit0~~6	REPEAT	0~~64,127(foot sw)		
bit7   LOAD EFFECT   0(off)/1(of		0(off)/1(on)		
CUE LIS	ST 0 STEP 2~~100	+		
5 : 202	: Same as CUE LIST 0 STEP 1(3~~4)			
CUE LIS	ST 1~~19 PARAMETERS			
204	Same as CUE LIST 0 (1~~19)			

### [ TABLE 12 ] 1 MULTI DATA

3856

Same as CUE LIST 0 (1~~19) (203 \* 19 = 3857Bytes)

+/h	oit)   PARAMETER	+	†	+	
No. (k	OIC)   PARAMETER	DATA(Hex) : VALUE +	DESCRIPTION	PARA No.  +	
00	MULTI NAME (Head)				
:	:	20~~7F			
15 +	MULTI NAME (Tail)	 +	 +	 +	
INS	INSERT EFFECT PARAMETERS				
16	<del>-</del>	<del></del>			
<u>:</u>	FX1~~5 (24Bytes * 5)				
135	(120 Bytes)	(120 Bytes)			
MAS	MASTER EFFECT PARAMETERS				
+   136	<del>-</del>			3C,00	
:	FX1~~2 (20Bytes * 2)			:	
: Return, Chain & EQ (16 Bytes) 191 (56 Bytes)			: 3F,??		
1 727	(56 Bytes)			35,55	

ARPEGGIATOR PARAMETERS				
+   192   :	Game as COMPT APPECO	TAMOD (100 212)		33,00
213	Same as COMBI.ARPEGGIATOR (192~~213) (22 Bytes)			35,0D
COMMO	N PARAMETERS			+
214				
: 223	Same as COMBI.COMMON (9 Bytes)	PARAMETER (214~~223)		: 00,0D
+   TRACK	-+			+
224		4 051)		n,00
: 671	Same as TIMBRE 1 (22) (28 * 16 = 448 Bytes			n,30
H   MULTI	-+CONTROL DATA			+
672	RPPR ON/OFF	0:OFF, 1:ON		
673	TRACK SELECT	0~~F,10:TRK01~~15,MASTER		
+   675	( RESERVED )	++ 		++ 
+   676	METER	**12-1		
+   677	TEMPO	28~~F0 : 40~~240		+ 
+   678	METRONOME LEVEL	00~~7F : 00~~127		·
+   679 	METRONOME BUS SELECT	0:L/R,1:L,2:R,3~~6:1~~4, 7:1/2,8:3/4		++ 
+   680	METRONOME PRECOUNT	00~~02 : 0~~2		++ 
+   681	TEMPO MODE	++   0:AUTO, 1:MANUAL, 2:REC		++ 
+   682	-+	++   0:PLAY, 1:MUTE		++ 
+   683	-+	++   0:PLAY, 1:MUTE		++ 
+   684	-+	   20~~7F		++ 
: 699	:   TRACK 1 NAME (Tail)			
+   700   :   939	TRACK 2~~16 NAME Same as TRACK 1 NAME (16 * 15 = 240 Bytes			
+   940   :   943	TR1 EVENT ADRS (MSB) : (4 Bytes) TR1 EVENT ADRS (LSB)			++ 
+   944   :   1007	TRACK 2~~16, MASTER Same as TRACK 1 EVEN ( 4 * 16 = 64 Bytes)			
1008	( RESERVED ) : (4 Bytes)			
1011	: -+	 ++		 +
PATTER	-+	++ 		 ++ '
1012	NAME (Head) :	20~~7F		
: 1027	: NAME (Tail)	[ASCII CODE]		
1028	LENGTH	01~~63 : 00~~99		·
+   1029	-+	**12-1		·
1030	( RESERVED )			ļ
+   1031	( RESERVED )			·
+   1032   :   1035	EVENT DATA ADRS(MSB) : (4 Bytes) EVENT DATA ADRS(LSB)			
1035     1036	PATTERN 1~~99	ı ++ I		 
3411	Same as PATTERN 0 (1) (24 * 99 = 2376 Byte	es)		
+   3412	TRACK1~~8 INT	0:OFF, 1:ON		·
   3413	-+	0:OFF, 1:ON		·
	-+	++		++

		KORO	G TRITON-Rack MIDI Implementation	Revision 1.3 (Jul.5.'01)
3414	TRACK1~~8 EXT	0:OFF, 1:ON		
3415	TRACK9~~16 EXT	0:OFF, 1:ON	į	i i
TRACK 1	PLAY LOOP			<u> </u>
bit7	ASSIGN	0:OFF, 1:ON	<u> </u>	
b0~~6	START MEASURE (MSB)	- 01~~3E7 : 001~~999		
3417	START MEASURE (LSB)	F 01~~3E/; 001~~999		
3418	END MEASURE (MSB)	01 207 . 001 000		
3419	END MEASURE (LSB)	+ 01~~3E7 : 001~~999		
3420 : 3479	TRACK 2~~16 Same as TRACK 1 PLAY ( 4 * 15 = 60 Bytes)	LOOP (3416~~3419)		
KEY=C-1	RPPR	<u> </u>	<u> </u>	
3480	PATTERN	00~~63 : U00~~U99 64~~F9 : P00~~P149		
b0~~3	+   TRACK	00~~0F : 01~~16	- <del>-</del>	++ 
b4~~7	SYNC	0:Off, 1:Beat, 2:Measure, 3:SEQ		
b0~~3	MODE	0:Once, 1:Manual, 2:Endless		
b4~~7	STATUS	0:NOTE,1:PAT,2:SHUTDOWN	<u> </u>	
3483	SHIFT NOTE	F4~~11 : -12~~12	<u> </u>	
3484 : 3991	KEY=C#-1~~G9 RPPR Same as KEY=C-1 RPPR ( 4 * 127 = 508 Bytes			
**12-1 : 10~~1F : 1/4~~ 16/4 20~~2F : 1/8~~ 16/8 30~~3F : 1/16~~16/16				

### MULTI EVENT DATA FORMAT

\* MULTI EVENT DATA's address is showed by each track's EVENT ADDRESS ( 1 MULTI DATA's 940~~1007th, 1032~~3411th ). And usually they are located just behind the 1 MULTI DATA.

x : Ignored

at Master Track

at Track 1~~16

at Pattern

2nd Data 3rd Data 4th Data 5th Data 6th Data

.... | .... | .... | .... | .... | .... | kkkk

kkkk : Evetn Data Kind

= 1 : Bar = 3 : Track End = B : Tempo Change

= 1 : Bar

= 2 : Pattern = 3 : Track End

= 9 : Note = A : Poly Key Pressure = B : Control Change = C : Program Change

= D : After Touch = E : Pitch Bend

= 1 : Bar

= 3 : Pattern End

= 9 : Note

= 9 : Note = A : Poly Key Pressure = B : Control Change = C : Program Change = D : After Touch = E : Pitch Bend

\* NOTE ON/OFF

+					
xxxx gggg	aaaa aaaa	xvvv vvvv	xkkk kkkk	tttt tttt	tttt 1001
Length		Velocity	Key No.	Tic	r ck

ggg : Note length ( From Note On to Note Off )

```
( = 0C0H : Quarter note )
       ( = FFFH : Tie to next measure)
     vv = 01 \sim 7fH
     ttt : Location of Note On ( in the measure )
        = 000 \sim BFFH
       ( = OCOH : Quarter note )
( = FFFH : Tie from last measure )
* PITCH BEND
uppp pppp | xbbb bbbb | xPPP PPPP | xBBB BBBB | tttt tttt | tttt 1110 |
Last Val(H) Last Val(L) Value(H)
                                   Value(L)
                                                       Tick
                                                        * 2
* AFTER TOUCH
xxxx xxxx | xxxx xxxu | xvvv vvvv | xVVV VVVV | tttt tttt | tttt 1101 |
                       Last Value
                                   Value
                                                       Tick
* PROGRAM CHANGE
bbbb bbbb | unnn nnnn | BBBB BBBB | xNNN NNNN | tttt tttt | tttt 1100 |
          Prog. No.
Last Bank Last Prog. No. Bank
                                                       Tick
* CONTROL CHANGE
xxxx xxxu | xvvv vvvv | xVVV VVVV | xnnn nnnn | tttt tttt | tttt 1011 |
           Last Value Value
                                  Control No.
                                                       Tick
* POLY KEY PRESSURE
xxxx xxxx | xxxx xxxx | xvvv vvvv | xkkk kkkk | tttt tttt | tttt 1010 |
                         Value
                                  Key No.
* PATTERN ( Insterad of BAR )
Pat Measure Pat No.
                                                 Measure No.
     M : Measure No. in the Pattern ( 00\sim63H : 00\sim99 )
     n = Pattern No. ( 00~~63 : U00~~U99
64~~F9 : P000~~P149 )
* TEMPO CHANGE
xxxx xxxu | vvvv vvvv | VVVV VVVV | 0110 1011 | tttt tttt | tttt 1011 |
           Last Tempo Tempo ( Fixed )
                                                       Tick
     vv, VV = 28H \sim F0H ( 40 \sim 240BPM )
* BAR
Meter
                         Size
                                                  Measure No.
     bb = 10 \sim 1F : 1/4 \sim 16/4
         20~~2F : 1/8~~16/8
30~~3F : 1/16~~16/16
     ss : Event Number in the measure
* TRACK/PATTERN END
xxxx xxxx | xxxx xxxx | xxxx xxxx | xxxx xxxx | xxmm mmmm | mmmm 0011 |
```

= 000~~BFFH

Measure No.

```
*1 : u = 0 : Use [ Last value } for last value u = 1 : Last value is unfixed Last value is used when Rewind & Location is decreased.
*2: ttt : Location of Event ( in the measure )
         = 000~~BFFH
( = 0C0H : Quarter note )
*3: mmm : Measure No. in the Track ( 000 \sim 3E7H = 000 \sim 999 )
```