

EMULATOR I - SOUND DESCRIPTION 2/15/83

Note: The range of each instrument is referenced to middle C, which is notated as C0. (Examples: C2 is two octaves above middle C, C-2 is two octaves below middle C.)

- 00-001-101M4 TRUMPET (*P)
This is a multi-sampled, single trumpet. It works as both a solo or section sound. It has a two octave range from C0 to C2.
- 00-001-102M2 TRUMPET
This is a double sampled single trumpet in the same range as 101M4, but with a fall-off of an octave when in natural release mode. Used with footswitch, the fall-off can be applied only as desired. A powerful sound.
- 00-002-101S TROMBONE
This is a single sample of a trombone with a two octave range from C0 to C2. This is in the upper range of the trombone. As the original note is transposed up, the sound begins to resemble a trumpet. This is a good overall brass sound.
- 00-002-102M2 TROMBONE
This a double sampled trombone with a two octave range from C-1 to C1. The trombone was recorded with a hard attack.
- 00-000-103M2 TROMBONE (*P)
This is a double sampled trombone with a two octave range from C-2 to C0. The lower sample is actually a bass trombone. Both samples have hard attacks.
- 00-002-104M2 TROMBONE
This is a double sampled trombone with a two octave range from C-1 to C1. It has a much mellower sound than 102M2 with a softer attack.
- 00-003-101S FRENCH HORN
This is a single sampled french horn with a two octave range from C-1 to C1. It is a pretty good general purpose brass sound, resembling trombones in its lower range and trumpets in its upper range.

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- 00-003-102M2 FRENCH HORN (*P)
This is a double sampled french horn with a two octave range from C-1 to C1. It is a much mellower sound than 1015 and has a much more consistent french horn sound over the entire range.
- 01-001-101S FLUTE
This is a single sampled flute with a two octave range from C0 to C2. It is a short sample with a short loop and has a sharp attack.
- 01-001-102S FLUTE (*P)
This is a single sampled flute with a two octave range from C0 to C2. It is a long sample with a long loop and a fairly slow attack.
- 01-001-103S FLUTE
This is a single sampled flute with a two octave range from C-1 to C1. It is a long sample with a long loop, fairly slow attack and a delayed tremolo. This is a great sound!
- 01-007-101M6 ALTO SAXOPHONE
This is a hex multi-sample of an alto saxophone in the range C0 to C2. There is some slight variation in timbre from sample to sample, but, when played idiomatically, it sounds amazingly like a sax. Great for big band section work and even for solos with skilful use of the pitch bend and mod wheels.
- 01-008-101M6 TENOR SAXOPHONE
This is a hex multi-sample of a tenor saxophone in the range C-1 to C1. The comments for the alto sax above apply equally to this sound. Note that this sound overlaps the range of the alto by one octave.
- 01-008-102M6 TENOR/BARITONE SAXOPHONE
This is a combination of samples consisting of the bottom octave of the tenor sax from 01-008-101M6 and an octave of bar sax one octave lower. The range is C-2 to C0. This sound is designed primarily to be used with alto sax 01-007-101M6 to give a continuous four octaves of saxophone across the keyboard.

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- 01-010-101M3 BASSOON
This is a triple sampled single bassoon with a range from C-2 to C0. The attack and timbre are very characteristic. This can be used with 01-013-101M6 for four octaves of woodwinds.
- 01-011-101M1 SOPRANO RECORDER
This is a single sample of a soprano recorder with a two octave range from C1 to C3. It can be used with 102M1 tenor recorder for a four octave range.
- 01-011-102M1 TENOR RECORDER
This is a single sample of a tenor recorder with a two octave range from C-1 to C1. The attack of this sound has characteristics of a Baroque organ and can be used in combination with 101M1 soprano recorder for a four octave range.
- 01-113-101M6 ENGLISH HORN/OBOE
This is a hex sample of an english horn in one octave, and an oboe in the highest octave, with a range from C0 to C2. The ranges of these instruments work well with that of the 01-010- 101M3 bassoon.
- 01-013-102M2 ENGLISH HORN
This is a double sampled single english horn with a range from C-1 to C1. Due to the range of this example compared with that of 101M6, there are more low end harmonics, producing a more characteristic english horn sound. The attack is also very typical , in its slight delay. This sound can be paired with 00-001-102M2, with an octave overlapping.
- 02-001-201M MALE VOICE
This is a multi-sampled pair of male vocalists with a two octave range from C-1 to C1. It sounds best when played in doubling mode with one half of the keyboard slightly detuned to give a more natural chorus effect. Because of the static nature of the loop, this is not a good solo sound but it is good for chords. Although the recorded samples are of male voices, the effect is that of a mixed chorus. The recording is of the vowel "ah".
- 02-001-801M1 MALE VOICES
This sound, submitted by Bo Tomlin, is Bo's voice multi-tracked onto 8 track tape and single sampled. It has a two octave range from C-2 to C0. It is much better for sustained chords than 201M. But, because it is a single sampled sound, it suffers from munchkinization when

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transposed more than a half. Since this version of an eight-tracked male voice is double sampled, its upper range can be featured in considerably more "choral" arrangements than 801M1 above. Its range is from C-2 to C0.

02-002-801M1 FEMALE VOICES

Although single sampled, this sound is extremely versatile throughout its two octave range (C-1 to C1), from contralto to highest alto. This works well with the 02-001-802M2 male voices, overlapping by one octave.

02-004-801M1 MIXED CHOIR

This single sampled sound has a range from C-1 to C1. It is very impressive and well-articulated, with the high end cutting through more noticeably than 02-002-801M1. Awesome, actually!

03-001-101M VIOLIN

This is a multi-sampled, single violin. It has a strong down-bow attack which works well for string quartet type sounds, but not so well for string section sounds. It has a two octave range from C0 to C2.

03-001-401S VIOLIN (*P)

This is a single sampled set of four violins playing in unison. The sound has a fairly slow attack with a long loop that is virtually undetectable. This is an excellent string sound especially with a little reverb added. It has a range from C0.

03-001-402S VIOLIN

These are the same violins as in 401S but an octave lower with a range from C-1 to C1. Again, the sound has a fairly slow attack with a long loop that is hard to detect. It is a good section sound but note that it will overlap an octave with 401S.

03-003-101M CELLO (*P)

This is a multi-sampled, single cello. It has a two octave range from C-2 to C0. It is a good sound for solo and section work, but requires skillful use of the vibrato pedal or wheel.

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- 04-001-101S PIANO (U)
This is a single sampled note from an upright piano with a two octave range from C1 to C3. It has a fairly soft attack.
- 04-001-102S PIANO (L)
This is a single sampled note from an upright piano with a two octave range from C-1 to C1.
- 04-002-101M1 HARPSICORD
At present, due to the resonant frequencies of the harpsicord, only the lower range is available (C-2 to C0). However, this single sample is remarkably crisp and bright, with characteristic attack and timbre. This sound works well with the 04-003-103M1 celeste.
- 04-003-101S CELESTE(U)
This is a single sampled note from a celeste with a two octave range from C2 to C4 and has a very bell-like timbre.
- 04-003-102S CELESTE (L)
This is a single sampled note from a celeste which captures the distinctive celeste sound over the entire range. It has a two octave range from C0 to C2.
- 04-003-103M1 CELESTE
This single sampled celeste has the identical range of 102S, but is considerably brighter with a more pronounced attack and characteristic timbre.
- 04-005-101S PIPE ORGAN (U) (*P)
This is a single sampled note from a church pipe organ. It has a two octave range from C0 to C2 and is rich in high overtones. It is an extremely powerful sound, especially with reverb or echo added.
- 04-005-102S PIPE ORGAN (L) (*P)
This is a single sampled note from a church pipe organ. It has a range from C-2 to C0 with strong low frequency content. It is an extremely powerful sound especially with reverb or echo added.
- 04-006-101M1 BAROQUE ORGAN (U)
This is a lovely sound with a surprising and complex timbre, similar to that of a calliope. The attack is soft with a buoyant sustain. Its range is C0 to C2, and must be heard to be appreciated.

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- 04-006-102M1 BAROQUE ORGAN (L)
Sampled from an authentic portative organ at University of California in Santa Cruz, this sound has an exceptionally characteristic organ attack and articulation. Its range is from C-2 to C0, and combined with 101M1, provides four octaves of Baroque organ.
- 05-001-101S HAMMOND ORGAN (U)
This is a single sampled note from a Hammond organ. It has a two octave range from C0 to C2. This note was recorded with the percussion stops.
- 05-001-102S HAMMOND ORGAN (L)
This is a single sampled note from a Hammond organ. It has a two octave range from C-2 to C0. This note was recorded with the percussion stops.
- 05-001-103S KORG ORGAN (U) (*P)
This is a single sample of a Korg C-3 organ. Its range is C-1 to C1. It has a percussive attack and a decaying filter and amplitude envelope. A good general purpose organ sound.
- 05-001-104S KORG ORGAN (L) (*P)
This is the lower two octaves of the organ sampled for 103S above. Its range is C-3 to C-1. The transition from this sample to 103S (above) at the cross over point is almost unnoticeable.
- 05-002-101S FENDER RHODES (U)
This is a single sampled note from a Fender Rhodes electric piano. It has a two octave range from C0 to C2 and has a soft, mellow sound.
- 05-002-102S FENDER RHODES (L)
This is a single sampled note from a Fender Rhodes electric piano. It has a two octave range from C-2 to C0 and has a soft, mellow sound.
- 05-002-103S YAMAHA ELECTRIC GRAND (U) (*P)
This is a single sampled note from a Yamaha CP80 electric grand piano. It has a two octave range from C-1 to C1. This is a very good sound over the entire range with a sharp attack that cuts through very nicely.

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- 05-002-104S YAMAHA ELECTRIC GRAND (L) (*P)
This is a single sample from the same Yamaha CP80 as 103S. It has a two octave range from C-3 to C-1. This is also a good sound over the entire range with a particularly impressive bass.
- 05-004-101S PROPHET 5
This is a single sample from a Prophet 5 synthesizer. The patch on the synthesizer used heavy frequency modulation to produce a very realistic bell sound, however, on the synthesizer you can play the sound in tune for only a very limited range due to the nature of analog FM. This sound, recorded in the Emulator, is in perfect tune for the whole two octave range.
- 05-004-102S PROPHET 5 (U)
This is a single sample of a "typical" synthesizer voice. It is about half way between a string and brass sound with the addition of a subtle phasing effect. It is intended for use as section accompaniment, as opposed to solo use. Its range is C0 to C2.
- 05-004-103S PROPHET 5 (L)
This is another synthesizer voice. It is related to 102S above, but is considerably "buzzier" and with a more pronounced phasing effect. It works well as a low register sound in combination with 102S. Its range is C-2 to C0.
- 06-001-101S ACOUSTIC 6 STRING GUITAR
This is a single sampled acoustic 6 string guitar. All the strings have been tuned to C and the guitar is strummed. This produces a rather unique sound when played on the keyboard, similar to an autoharp.
- 06-001-102M1 NYLON STRING GUITAR
This sound, submitted by Richard Burmer, is a single sample of an acoustic nylon string guitar. It has a two octave range from C-1 to C1 and is an extremely pretty sound.
- 06-005-101S ELECTRIC TWELVE STRING GUITAR
This is a single sample from an electric twelve string guitar. The pair of strings sampled from the guitar are tuned an octave apart which produces a rich sound when played on the keyboard. It has a two octave range from C-1 to C1.

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- 06-005-102S ELECTRIC TWELVE STRING GUITAR
This is a single sample from an electric 12 string guitar. The notes sampled are tuned to unison and when played on the keyboard, the sound has a timbre resembling a harpsicord. It has a two octave range from C0 to C2. Note that this sound overlaps the range of 06-005-101S above.
- 06-007-101M ELECTRIC BASS
This is a multi-sampled electric bass with a two octave range from C-2 to C0. It is set up in the solo mode and is particularly smooth through the sampling points.
- 06-007-102M2 FUNK BASS CL)
This sound, submitted by Chris Page, is a double sample of funk-style slap electric bass guitar. It has a two octave range from C-2 to C0 and should be used with 103M2.
- 06-007-103M2 FUNK BASS (U)
This is the same bass as 102M2, but with a range from C0 to C2. The upper range consists of harmonics.
- 06-012-101S SITAR
This is a single sample of a sitar's sympathetic strings being strummed in a descending glissando. It's just the thing for recreating all those great psychedelic hits of the sixties.
- 06-012-102S SITAR
This is a single sample of a plucked sitar note. It has the characteristic "twangy" sitar sound and works particularly well in combination with 06-012-103S below. It should be noted that for some reason known only to Kevin, this sample was recorded such that when you play a C on the keyboard the pitch is an A.
- 06-013-101S HARP
One case in which time compression and expansion is an advantage, this is a single sample of an ascending pentatonic harp glissando. Since the speed of the gliss varies over the two octave range, you have a choice of two different speeds for each pitch (depending on which octave you play it in). Also, by playing a note in the lower octave followed by the same note in the upper octave a few seconds later, it is possible to extend both the duration and range of the gliss.

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- 06-013-102S HARP
This is a single sample of a descending pentatonic harp glissando. Combining this sound with 06-013-101S above allows the playing of some lovely harp lines of various shapes.
- 06-013-103S HARP
This is a single sample of an ascending harp glissando on a diminished scale. The comments for 06-013-101S are equally applicable to this sound.
- 06-013-104S HARP
This is a single sample of a descending diminished harp glissando. The comments for 06-013-102S above are equally applicable to this sound.
- 06-013-105S HARP(U)
This is a single sample of a plucked harp string. Its range is C1 to C3. If played idiomatically, it sounds very authentic. If played in other styles, it sounds like some sort of not quite recognizable guitar or keyboard instrument.
- 06-013-106S HARP (L)
This is a single sample of a plucked harp string. Its range is C-1 to C1. Comments for 06-013-105S above are equally applicable to this sound.
- 06-013-107M2 HARP
This is a double sample of two harp strings being plucked simultaneously. The range of the lower string is C0 to C2. The upper string is two octaves higher. A lovely sound.
- 07-001-401M DRUM SET (*P)
This is a multi-sampled set of drums. The set includes a kick drum, two toms, and a snare. Each drum has a half octave range with the kick drum in the lowest half octave, the snare in the highest half octave, and the toms in between.
- 07-002-102M4 PERCUSSION
This quad sampled assortment of non-Western sounds consists of a half octave of dave', a half of tambourine and a half each of a "mystery" shaker sound and its backwards version. This, together with the 07-017-101M4 tabla, allows for the creation of exotic rhythms.

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- 07-002-401M PERCUSSION SET
This is a multi-sampled set of percussion instruments. The set includes an open high hat, a closed high hat, a crash cymbal and hand claps. Each sound has a half octave range.
- 07-005-101S TYMPANI (*P)
This is a single sampled tympani with a two octave range. The pitch bend wheel allows a good simulation of pedal glissando.
- 07-006-101S VIBRASLAP
This is a single sampled vibraslap with a two octave range. It is as useful as a sound effect as it is a percussion instrument. It can sound something like a lawn mower in the lower octave.
- 07-011-101S VIBES (*P)
This is a single sampled note from a set of vibes. It has a two octave range from C-1 to C1 and sounds great over the entire range.
- 07-013-101S GLOCKENSPIEL
This is a single sample of a glockenspiel (metal bars) with a range of C1 to C3. It has a very bell-like tone.
- 07-014-101S ORCHESTRA BELL
This is a single sample of a tubular orchestral bell with a range of C0 to C2. It is very rich in both harmonic and non-harmonic overtones.
- 07-014-102S ORCHESTRA BELL
This is a single sample of an orchestral bell one octave higher than the one above. Its range is C1 to C3. Note that this range overlaps the range of 014-101S by one octave.
- 07-015-101S BELL TREE
This is a single sample of a bell tree being stroked in an ascending motion. A very lush sound is produced when multiple keys are pressed.
- 07-015-102S BELL TREE
This is a single sample of a bell tree being stroked in a descending motion. This also produces a rich sound when multiple keys are pressed.

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- 07-016-101S XYLOPHONE
This is a single sample of a toy xylophone with metal bars. It has a two octave range from C1 to C3. It has a sound similar to a little music box.
- 07-016-102S XYLOPHONE
This is a single sample of a xylophone (wooden bars) struck with a mallet. Its range is C0 to C2.
- 07-016-103S XYLOPHONE
This is the very same Sound as 102S above but recorded with substantial reverb.
- 07-017-101M4 TABLA
Indescribable, but a must for any serious attempts at Third World tonalities! The tabla, paired with the 07-002-102M4 percussion, makes available a wide variety of percussive textures.
- 07-017-101S FLEXITONE
This is a single sample of a flexitone which has a bell-like timbre and sounds good through its entire 2 octave range.
- 08-001-102S SNEEZE
This is a human male (under the influence of pepper) sneezing. It has a two octave range.
- 08-001-103S CASH REGISTER
This is a single sample of an old style cash register. It includes bell ringing and drawer sliding open.
- 08-001-104S CLOCK CHIMES
This is a sample of a single chime from a mantle clock, its good for clock chime sequences and the lower octave works well for bell sounds.
- 08-001-105S FIRECRACKER
This is a single sample of an M-80 firecracker exploding. The fuse has been edited out so it works well for gun shot sounds.
- 08-001-106S FIRE CRACKER
This is the same M-80 exploding as 08-001-106S except the fuse is intact and can be heard burning.
- 08-001-107S CAT
This is a single sample of a cat meowing (one meow).

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- 08-001-108S WATER
This is a single sample of running water. It has a long loop so that when chords are played in the lower octave, it gives the effect of a small brook or stream running by.
- 08-001-109S BREAKING GLASS
This is a single sample of a pane of glass being shattered by a brick thrown from about 15 feet.
- 08-001-110S DOOR CLOSING
This is a single sample of an old squeaky door being slowly closed, then slammed shut. The door closes with a loud bang.
- 08-001-111S INDIAN CYMBAL
This is a single sample of a small hand-held cymbal, which produces a high pitched bell-like sound. When multiple keys are pressed in a slow sequence, a sound resembling wind chimes can result. It is also a very good sound to play with the musical saw in doubling mode.
- 08-001-112S DOOR OPENING
This is a single sample of an old squeaky door being opened. You can hear the door knob turn, then the door open.
- 08-001-113S SHIP'S BELL
This is a sample of a brass bell being rung for 1 1/2 seconds. The sampled pitch is an E and is slightly sharp.
- 08-001-114S SHIP'S BELL
This is a sample of the same bell as in 113S, but only a single strike of the clapper. It is quite usable as a melodic instrument (but remember, pressing the C key results in an E).
- 08-001-115S VOICE
This is a single sample of a human male voice but you would have a hard time guessing that. The sound is something like an ascending birdcall and when played in the lower octave with multiple keys pressed, produces a unique effect.
- 08-001-116S MOTORCYCLE REVVING (*P)
This is a single sample of a motorcycle revving. It has a two octave range. The lower one plays on the keyboard,

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the larger the motorcycle seems. Playing multiple keys produces a great motorcycle gang effect.

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- 08-001-117S MOTORCYCLE IDLING (*P)
This is the same motorcycle as 116S except that it is calmly idling. It can be used in combination with 116S and sounds like anything from a tractor to a minibike, depending on where on the keyboard you play.
- 08-001-301S LAUGHTER
There are three people laughing on this disk. When multiple keys are played, it sounds like a large group laughing. This is a single sampled sound with a two octave range. At the top of the range, it sounds like Alvin and the Chipmunks.
- 08-001-302S CLAPPING
This sound has three people clapping and whistling. When multiple keys are played, it has the sound of large group applause. It is a single sampled sound with a two octave range.
- 08-001-901S FROGS
This is a sample of some local frogs ribbiting away in the night. A must for frog lovers.
- 09-001-101S MUSICAL SAW
This is a single sample of a common hand saw being bowed with a violin bow. A musical saw has a very pure sound, much like a sine wave. Vibrato increases in this particular sample as the note decays, which can produce a rather eerie sound when chords are played on the Emulator.
- 09-001-102S JAW HARP
This is a single sampled jaw harp. It has a two octave range but is in E rather than C. It has a very percussive attack with the characteristic "boing" sound of a jaw harp. As this sound decays, some interesting phase shifting occurs, which is especially noticeable in the lower octave.
- 09-001-103S JAW HARP
This is the same jaw harp as 102S with a much mellower tone. It is also in E, but is richer in low harmonics.
- 09-001-104S WINE GLASS
This is the sound of a fine crystal wine glass being struck with a metallic object. The result is a very pure percussive timbre. Like having a two octave glass xylophone.

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- 09-001-105S WINE GLASS
This sound was produced by rubbing a wetted finger around the rim of the wine glass in 104S above. The result is the very beautiful and haunting sound of the glass harmonica.
- 10-001-101S ALAN PARSONS - TODD RUNDGREN
These are two examples of sampling recorded music. The lower sound is a segment of an Alan Parsons record. The upper sound is a segment of a Todd Rundgren record. Both samples are two seconds long and have a loop that is in perfect sync with the rhythm of each piece. This disk demonstrates the loop function of the Emulator with a sound most people will recognize, along with the sampling of pre-recorded material.
- 10-001-102S TRUMPETS - REGGAE
These are samples from two different radio shows. The lower sound is a portion of a trumpet solo. The upper sound is a portion of an intro to a reggae song and is a rhythm track. The reggae rhythm is in non-transposition mode so that any key pressed in the upper half of the keyboard will result in the same tempo. With the Emulator in doubling mode you can play chord progressions with the trumpet sound in the lower half of the keyboard and simultaneously hear the reggae rhythm, all with one hand. There is a simple sequence on this disk to demonstrate this feature.
- 10-001-105S JAZZ QUARTET
This disk uses special multi-sample software to demonstrate some of the compositional capabilities of the Emulator sequencer. There are four sounds on this disk: an octave of electric bass, an octave of flute, a ride cymbal, and an octave of vibes. A jazz improvisation sequence is stored on the disk and is automatically loaded when the Emulator is booted with this disk. When recalling the sequence, you will have a hard time convincing people that a tape isn't playing.