

THE MUSIC BOX AND KALEIDOSCOPE
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PUBLISHED BY THE MUSE CO.
P.O. BOX 13365
BALTIMORE, MD 21203

I. TO START (AFTER LOADING 300.1B00R)

TYPE: CTRL Y RETURN → 3F9 → FD = 488
TYPE: RETURN

II. TO PLAY AS A MUSIC BOX

A. Listening to a song (L)

To listen to the MUSIC BOX type L. To stop the MUSIC BOX type RETURN or the SPACEBAR and wait for the song to finish.

TYPE: L
TYPE: RETURN (and wait for the song to finish)

B. To Exchange Songs (X)

The MUSIC BOX contains two songs. To exchange songs so that the second song may be played type X.

TYPE: X
TYPE: L
TYPE: RETURN (and wait for the song to finish)
TYPE: X
TYPE: L
TYPE: SPACEBAR (and wait for the song to finish)

C. Tempo (T)

The relative speed of the song is known as the tempo. The tempo of a song is changed by typing T and then the new tempo desired. The tempo of a song is automatically updated whenever songs are exchanged or read from tape. The tempo also affects the rate at which the scales are played.

TYPE: T 245 RETURN (DO NOT TYPE SPACES)
TYPE: S L RETURN ("S" causes the scales to be played)
TYPE: T 180 RETURN
TYPE: S

III. TO PLAY AS AN INSTRUMENT

A. Musical Notes

The MUSIC BOX has 3 sets of notes (3 octaves). These notes are typed as C D E F G A B in order of increasing frequency or pitch.

TYPE: C D E F G A B RETURN (DO NOT TYPE SPACES)

B. Octaves

When a note occurs again after seven notes it is known as the same note in the next higher octave. The higher note, which bears the same letter as the lower one, has the same tonal quality and is simply higher in pitch. To go to a higher octave type ^ (or N). To go to lower octave type /.

TYPE: //CDEFGAB^CDEFGAB^CDEFGAB/CDEFGAB RETURN

C. Sharps and Flats

Between each pair of adjacent notes (except E F and B C) there exist semi-tones known as sharps and flats. The sharp of any note has the same pitch as the flat of the next higher note (e.g. C sharp is the same sound as D flat). Sharps are played by holding down the CTRL key and simultaneously pressing down the note key.

TYPE: C CTRL-C D RETURN

D. Scale (S)

The complete scale of notes and semi-tones (sharps and flats) is played by typing S.

TYPE: //S^S^S/

E. Tuning the keys (K)

The MUSIC BOX user can customize the sounds produced by re-tuning any or all of the notes and semi-tones to generate special sound effects. To tune any key type K.

TYPE: C RETURN (DO NOT TYPE SPACES)
TYPE: K C 250 RETURN
TYPE: C
TYPE: K C 189 RETURN
TYPE: C RETURN

IV. PROGRAMMING THE MUSIC BOX (P)

The songs within the MUSIC BOX can be changed or replaced. The basic elements of musical notation are available including sharps and flats, note time (whole note, half note, etc), three octaves, rests, dotted notes and tempo.

TYPE: P
TYPE: Y
TYPE: ← (and hold the repeat key until the cursor returns to the first note of the song)
TYPE: C4R1. RETURN ALWAYS END THE SONG WITH A PERIOD ".".
TYPE: 1 RETURN (You have just played a C quarter note and whole rest)

A. Note time

The duration of the note is determined by the number following it. For instance, C4 is a C quarter note, G16 is a G sixteenth note, F1 is a F whole note. The higher the number the shorter the note will be (must be less than 255).

B. Rests

A rest (silence) is indicated by R and a note time.

C. Octave changes (^ and /)

The ^ and / function as they do in the interactive mode to raise and lower the octave.

TYPE: P Y

TYPE: ← (and hold rept until the cursor returns to the first note).

TYPE: //C1^C2^C4/R1. RETURN

TYPE: 1 RETURN ALWAYS END THE SONG WITH A PERIOD ".".

D. Dotted notes (:)

A dotted note increases the duration of the note by 50%.

TYPE: P Y

TYPE: ← (and hold rept until the cursor returns to the first note).

TYPE: C1R1C:1R1. RETURN

TYPE: 3 RETURN ALWAYS END THE SONG WITH A PERIOD ".".

E. Sharps and flats (+ and -)

A sharp is indicated with + and a flat is indicated with "-". (e.g. C+4 is a C sharp quarter note)

TYPE: P Y

TYPE: ← (and hold rept until the cursor returns to the first note)

TYPE: C2R2C+2D-2R2. RETURN

TYPE: 3 RETURN

F. Song size.

A song may contain up to 255 characters. When the buffer comes to within 4 characters of being full the computer will respond with a "BEEP". Terminate the song within the next four characters. Typing more may cause the program to "deep end" and necessitate reloading from tape. CONTINUED ON OTHER SIDE

PROGRAMMING THE MUSIC BOX (continued from other side)

G. Song Continuation
Some longer than 255 characters may be continued with the exchange character (X).

TYPE: P Y
TYPE: ← (only once this time)
TYPE: X. RETURN
TYPE: I RETURN
TYPE: P Y
TYPE: RETURN RETURN
type: X P Y RETURN RETURN X

V. SPECIAL KEYS

A. Quiet Key (q)
Occasionally we wish to watch the Kaleidoscope without sound. To toggle the sound on or off type Q.

B. Kaleidoscope off (GRRL-Q)

By turning the Kaleidoscope off we can reduce the transition time between notes as is sometimes necessary when producing special sound effects. To toggle the Kaleidoscope off or on type q while holding down the GRRL key.

VI. READING AND WRITING SONGS TO TAPE

A. Read (I for Input)
To read a song type I. Then start the cassette recorder in the read mode and type RETURN.
B. Write (O for Output)
To write a song type O. Then start the recorder in the write mode and type RETURN.

HINTS FOR READING SHEET MUSIC

COMMON MUSICAL NOTATION

NOTE TIME

The duration of a note is indicated by the way the note is drawn.

Here are the main units;

	whole note (1)		eight note (two eight notes)(8)
	half note (2)		sixteenth note (16) (two sixteenth notes)
	quarter note (4)		thirty-second note (32) (two thirty-second notes)

RESTS

When a line of music is silent a symbol is put in to show the duration of this silence. Here again are the main units.

	whole rest(R1)	7	eight rest(R8)
	half rest(R2)	7	sixteenth rest(R16)
	quarter rest(R4)	7	thirty-second rest(R32)

TIE SIGN

This indicates that the note should be continued for the duration of both notes together. 

DOTTED NOTES

Dotted notes increase the duration of the note by 50%. A dotted note is represented as a ":" colon in the MUSIC BOX. 

SHARPS AND FLATS

Sharps are indicated with a # sign. Flats are indicated with a b sign.

MUSIC BOX NOTES

