

**Warren Burt**

**The Animation of Lists  
And the Archytan Transpositions**

**for multitracked, computer-transposed tuning forks**

**October 2004 - January 2005**

**commissioned by XI Records, New York**

This piece is to be made with my self-made just intonation tuning forks. There are 3 tracks, which will be mixed to stereo. Each track has 10 or 12 sections. Each section of each track is to be recorded separately. The score pages indicate which tuning forks are to be used in the section, either hand held, or mounted in a special frame designed by Anne Norman, when they are to be played and how many are to be played in any one time period. A variety of beaters are to be used in each section to make slight timbral differences in the sound of the forks. The frame mounted forks (with resonators under the bass forks), are to be struck, vibraphone style, and let ring. The hand held forks are to be struck and then moved around in the air, slowly, creating phasing patterns on the recording.

Once the sections are recorded, 2 different mixes are to be made. The first simply mixes the tracks according to the time schedule given below. The piece resulting from this mix is called "The Animation of Lists." The second also uses the same mixing time schedule, but each section of tracks II and III is to be computer transposed using the "Pitch Bender" routine in Adobe Audition (the program formerly known as Cool Edit). All sections of track II are to be transposed **up** a 28/27, that is, 63 cents. All sections of track III are to be transposed **down** a 28/27, that is, again, 63 cents. These transposed recordings are mixed with the untransposed recordings of track I to create the second mix. The piece resulting from this mix is called "And the Archytan Transpositions."

On each score page, once the required forks are placed in their frames, each fork is referred to by a single number. These numbers and the corresponding ratios are given above the timeline of the score. Here is the complete scale of the forks, which is duplicated in four octaves, from G (1/1) = 96 hz up to G (2/1) = 1568 Hz. Fork ratios with one line above them indicate forks in the higher octave of either the treble or the bass set of forks. Fork ratios with two lines above them indicate the fork in the highest octave (the top pitch) of either set of forks.

Here is the timeline for the mixing of the score. Each section begins at the given time, and can overlap the beginning of the following section. All tracks should be mixed so that each track is balanced equally. Panning instructions for each track are given in the accompanying essay.

TRACK I 0:00 Sect 1 / 4:45 Sect 2 / 11:30 Sect 3 / 18:45 Sect 4 / 26:15 Sect 5 / 30:45 Sect 6 / 36:30 Sect 7 / 41:15 Sect 8 / 45:45 Sect 9 / 53:15 Sect 10 / 60:45 End track I

TRACK II 0:00 Sect 1 / 5:00 Sect 2 / 11:30 Sect 3 / 17:00 Sect 4 / 22:45 Sect 5 / 28:15 Sect 6 / 33:30 Sect 7 / 40:15 Sect 8 / 47:30 Sect 9 / 54:00 Sect 10 / 62:00 End track II

TRACK III 0:00 Sect 1 / 4:15 Sect 2 / 10:45 Sect 3 / 16:00 Sect 4 / 21:45 Sect 5 / 25:45 Sect 6 / 30:15 Sect 7 / 35:15 Sect 8 / 42:30 Sect 9 / 46:45 Sect 10 / 51:00 Sect 11 / 56:30 Sect 12 / 64:00 End track III

Ratios of the forks, based on  $1/1 = G = 392 \text{ Hz}$ .

0:	1/1	0.000 unison, perfect prime
1:	28/27	62.961 Archytas' 1/3-tone
2:	16/15	111.731 minor diatonic semitone
3:	10/9	182.404 minor whole tone
4:	9/8	203.910 major whole tone
5:	6/5	315.641 minor third
6:	5/4	386.314 major third
7:	9/7	435.084 septimal major third, BP third
8:	4/3	498.045 perfect fourth
9:	7/5	582.512 septimal or Huygens' tritone, BP fourth
10:	10/7	617.488 Euler's tritone
11:	3/2	701.955 perfect fifth
12:	14/9	764.916 septimal minor sixth
13:	8/5	813.686 minor sixth
14:	5/3	884.359 major sixth, BP sixth
15:	16/9	996.090 Pythagorean minor seventh
16:	9/5	1017.596 just minor seventh, BP seventh
17:	15/8	1088.269 classic major seventh
18:	27/14	1137.039 septimal major seventh
19:	2/1	1200.000 octave

Mic on left - lanes - Begin at 0:00

19 sections 4:45 dur

Section 1 Track I - at pitch

18-27/14 0-1/1

Box 29-10/9 32-8/5

LWO-1/1 25 5/4 31-14/9

STAFF 1B 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15  
 1/1 1/1 27/14 5/4 10/7 14/9 8/5 (9) (14) (18) (20) (22) (23) (27) (38) (38)  
 7/5 5/3 27/14 27/14 10/9 8/5 27/14 2/1

HAND HELD TIMEDUES

1 2 3 4  
 (1) (20) (20) (30)  
 28/27 16/15 9/7 3/2

EXPERIMENT

Time	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30
Section 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Section 4	2	2	4	1	2	1	1	3	4	3	1	3	2	2	3	1	3	4	
# of hits	3	12	8	6	1	13	1	10	3	11	4	6	14	14	2	8	6	9	10
Misses	11	10	9	13	5	15	7	15	5	8	2	12	9	13	12	15	6	11	4
	14																		
	4																		

repeat for new urn

HAND HELD

Time	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30
Section 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Section 0	0	1	0	0	0	0	1	1	0	2	2	1	1	1	1	1	2	1	2
							3	1		4	3	4	4	3	2	1	2	3	1
		2								2	1	2	4	3	2	1	4	3	3



# TRACK I Section 3 - At Pitch - 29 Section - 7'5" Mic on LEFT of FRAME - Begin @ 11:30

FRAME

1B 2T 3B YT 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
 (1) (36) (3) (37) (4) (38) (12) (0) (3) (5) (6) (11) (19) (22) (31) (13) (14) (17) (28)  
 28/27 15/8 10/9 27/4 9/8 2/1 14/9 1/1 10/9 6/5 5/4 3/2 2/1 10/9 14/9 8/5 5/3 15/8 7/5

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
# of Forks	4	2	5	4	2	2	1	5	5	4	3	3	3	2	1	3	2	3	5	2	4	1	3	4	3	1	3	1	
WHICH FORKS	8	10	3	12	2	12	8	9	11	5	1	3	13	4	5	14	13	3	4	1	13	12	2	4	8	7	3	2	15
	9	6	15	13	10	15	14	4	5	11	6	8	7	16	15	9	13	7	11	1	10	6	9	5	11	4	14	12	
	2	5	14	7	4	3	3	1	1	12	14	9	2	16	16	9	10	10	12	1	7	9	3	5	11	4	12	15	
	5	11	11	4	1	13	13	6	7	10	14	9	2	16	15	9	10	1	1	1	7	9	3	5	11	4	12	15	

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
# of Forks	2	3	1	0	0	2	0	1	2	0	0	1	1	0	2	1	0	0	2	1	0	0	0	1	1	0	1	1	0
WHICH FORKS	1	3	1	1	1	2	4	3	2	1	1	3	1	1	4	3	1	1	3	2	0	0	1	1	4	1	4	3	
	2	1	3	2	2	2	4	3	2	0	0	3	1	1	2	3	0	0	3	1	0	0	0	1	1	1	4	3	
	4	2	4	2	2	2	4	3	2	1	1	3	1	1	2	3	1	0	3	2	0	0	0	1	1	1	4	3	

















Track II - Section 1 - transverse 4' - Mic on Centre of frames - Begin at 0'00"

BASS 16 23 33 36

HAND HELD

FRAME 1 B	2 T	3 B	4 T	5 B	6 T	7 B	8	9	10	11	12	13	14	15
(16)	(10)	(23)	(21)	(33)	(30)	(36)	(9)	(14)	(16)	(19)	(24)	(28)	(35)	(37)
9/5	10/7	9/8	14/16	5/3	2/1	15/8	7/5	5/3	9/5	2/1	6/5	7/5	9/5	27/14

1 2 3 4  
 (18) (20) (31) (34)  
 27/14 9/7 14/9 16/9

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
# of FURKS	5	1	3	5	2	4	4	1	4	3	2	1	1	1	4	2	5	4	5	4	
WHICH FURKS	15 9 11 10 13	4	2	12 1 6 8 14	5 11	13 2 14 12	15 10 9 8	5	4 1 3 7	6 4 1	14 9	8	8	2	15	5 3 5 7	12 11	10 13 3 8 14	15 1 7 9	12 10 6 5 13	4 2 11 4

rpt  
 via  
 new

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
# of FURKS	1	1	1	1	2	1	0	2	1	1	0	0	2	0	1	1	2	1	2	1
WHICH FURKS	3	2	1	4	3 4	2		1 3	2	4			1 3		1	4	2 4	3	1 2	2

TABLE 2 Section 2 - TRANSPOSE UP - 26 Sections 6:30" - Mic in Centre of frames - Begin @ 5:00

FRAME: IB 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
 (1) (14) (34) (37) (51) (16) (17) (28) (29) (30) (34)  
 28/27 27/14 5/3 16/9 27/14 7/5 3/2 9/5 5/8 7/5 10/7 3/2 16/9  
 (4) (26) (36) (37)  
 9/8 9/17 15/18 27/14

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15
Section 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
#4 Forks	1	2	1	3	2	2	4	1	4	1	4	1	1	4	2	3	1	1	2	5	3	1	4	3	1	
WHICH FORKS	6	12	7	13	2	9	8	12	3	15	6	2	7	5	15	11	8	14	4	13	12	11	8	5	2	7

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15
Section 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
# of Forks	2	1	1	0	0	1	2	1	1	1	1	0	0	1	0	0	1	2	0	1	0	2	1	2	2	2
WHICH FORKS	1	4	2			3	4	2	4	3	2			1				2		1		4	3	1	3	4

# TRACK II Section 3 - Transpose UP - 22 Section - 5:30 - MIC in Centre of Frames - Begin @ 11:30

FRAME  
 1B 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
~~(4) (1) (18) (4) (26) (12) (35) (9) (11) (16) (17)~~  
 (4) (1) (18) (4) (26) (12) (35) (2) (29) (25) (28) (30) (37) (38) (35)  
 9/8 28/27 27/14 9/8 9/7 14/9 9/5 16/15 28/27 5/4 7/5 3/2 5/3 27/14 2/1 16/15 9/8 16/9 9/5

**FRAME**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15
Section 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Section 2	5	4	1	3	3	3	3	4	4	4	3	3	5	2	2	1	3	1	4	5	5	1
Section 13	7	5	8	2	3	4	11	12	9	8	12	14	15	4	12	15	9	3	7	13	8	1
Section 15	4	8	9	10	6	14	7	10	10	4	7	5	11	5	1	15	8	2	6	11	13	
	14	14	9	13	3	15	1	5	2	13	13	6	1	9	1	10	10	14	7	10	6	
	11	11	6	1				2	3	8	8	10	10	10	10	9						

**HAND HELD**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15
Section 1	2	3	3	4	5	6	7	8	9	10	4	12	13	14	15	16	17	18	19	20	21	22
Section 1	1	1	1	2	1	0	2	2	1	1	1	2	1	1	0	0	0	1	2	1	0	1
Section 1	4	2	2	3	4	3	2	4	1	2	4	3	1	2				1	4	2		4



# TRACK II SECTION 4

TRANSPOSE UP  
 TRANSPOSE DOWN

23 SECTIONS 5:45 DUR - MIC CENTRE OF FRAME. BEGIN @ 17:00

FRAME	1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
	8	8	9	13	10	27	21	10	11	17	23	25	28	31	37		12	15	16	26
	4/3	4/3	7/5	8/5	10/7	4/3	16/15	10/7	3/2	15/8	9/8	5/4	7/5	14/9	27/14		14/9	16/9	9/5	9/7

## FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section 1	2	3	4	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
# of Forks 1	4	1	3	3	4	4	4	4	4	4	4	4	4	4	2	3	5	2	4	2	5	3	2								
WHICH Forks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

## HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section 1	2	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
# of Forks 1	1	2	2	2	1	1	1	1	1	0	0	0	1	0	0	2	1	0	1	0	1	1	1								
WHICH Forks	3	1	3	4	1	2	4	1	2	4	1	2	4	1	2	4	1	2	3	2	3	4									





TRACK II SECTION 7

TRANSPOSE UP  
TRANSPOSE DOWN

27 SECTIONS 6:45 DUR - MVA OF FRAME. BEGIN @ 33:30

FRAME	1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
	24	6	25	19	27	26	28	4	13	16	18	23	30	33	36		8	9	15	32
	6/5	5/4	5/4	2/1	4/3	9/7	7/5	9/8	8/5	9/5	27/14	9/8	3/2	5/3	15/8		413	7/5	16/9	2/5

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30		
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
# of Forks	3	4	3	2	4	5	4	5	4	2	2	2	2	3	2	5	2	4	2	2	2	3	4	3	4	2	1						
WHICH Forks	13	4	4	2	4	4	4	4	2	11	13	3	8	15	5	8	15	14	2	9	9	15	5	1	2	1	7						
	11	4	7	10	14	14	13	14	15	10	14	7	12	4	9	6	5	7	13	11	13	12	10	7	14	11							
	8	9	5	2	1	3	6	3	3	1	1	1	6	12	6	10	3	3	3	3	4	11	8	11	15								

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27					
# of Forks	0	0	2	0	1	1	0	0	0	0	0	1	1	0	1	2	2	1	1	1	2	0	1	0	2	1	0					
WHICH Forks			2		3	1	2	4				4	2	3	3	1	3	1	3	2	4	4	3		2	4	1					

TRACK II SECTION 8

ALL MECH  
 TRANSPOSE UP  
 TRANSPOSE DOWN

29 SECTIONS I:15 DUR - MAG AF FRAME. BEGIN @ 40:15

FRAME	1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
	3	22	7	23	15	33	22	0	3	5	7	17	18	25	30	4	13	20	26	
	10/9	10/9	9/7	9/8	10/9	5/3	10/9	1/1	10/9	6/5	9/7	15/8	27/14	57/4	3/2	9/8	8/5	28/17	9/5	

**FRAME**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
# of Forks	1	3	4	5	2	4	2	2	4	2	2	2	2	2	2	2	2	3	1	3	2	1	1	1	1	1	1	1	2		
WHICH Forks	8	13	10	6	9	4	1	3	9	15	7	8	2	14	9	5	4	8	12	14	7	11	10	8	1	2	6	13	9		
	15	11	11	12	2	11	5	14	6	10	10	3	3	1	11	13	10	2	5	4	3	11	10	8	1	15	6	13	9		
	4		3	14					12				6							4						12		12			

**HAND HELD**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
# of Forks	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0	0	0	2	0	1	1	0	0	0	0	1	1		
WHICH Forks	4	3	1	2	3	2	1	4	1	2		2	4	3	3	3	4			1	2	4	2				3	1			

# TRACK II SECTION 9

AT MITCH  
 TRANSPOSE UP  
 TRANSPOSE DOWN

26 SECTIONS 6:30 DUR - ~~WVA~~ ~~AF~~ FRAME: BEGIN @ 47:30

FRAME	1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
	5	12	11	27	17	28	38	3	11	13	15	21	26	29	30		14	24	34	37
	6/5	14/9	3/2	4/3	15/8	7/5	2/1	10/9	3/2	8/5	16/9	16/15	9/7	10/7	3/2		5/3	6/5	16/9	27/14

## FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
Section 1	2	3	4	1	4	9	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26						
# of Forks 1	4	1	1	1	4	3	4	3	3	3	3	1	2	5	2	2	2	5	3	4	5	1	2	5	1	3						
WHICH Forks	2	15	11	14	12	8	7	12	4	9	1	15	6	12	1	2	9	14	15	1	11	9	13	4	6	1	2					
	4	4	13		6	10	14		7	10	2		7	3	13	11	10	12	5	4	8	11	10	8	1	2						
	9				5	3	13		5	8	3		4	4	10	6	10	12	3	6	7	12	8	12	1	2						

## HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
Section 1	2	3	4	1	4	9	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26						
# of Forks 2	1	1	0	0	0	1	0	0	1	1	0	1	1	1	1	0	2	2	0	1	1	1	2	1	2	1						
WHICH Forks	2	1	1	1	1	2	0	0	0	1	0	1	1	1	1	0	2	3	4	2	4	1	3	1	4	2						
	4	1	3		1	3				4		3	1	4	2		2	3		2	4	1	3	1	4	2						

TRACK II SECTION 10 32 SECTIONS 8:00 DUR - MAN OF FRAME. BEGIN @ 54:00

FRAME 1B 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
 5 10 6 18 14 26 19 12 15 22 27 29 32 33 38 0 2 19 23  
 6/5 10/7 5/4 27/14 5/3 9/7 2/1 14/9 16/9 10/9 4/3 10/7 8/5 5/3 2/1 1/1 14/5 2/1 9/8

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00	
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
# OF FORKS	3	5	2	1	2	1	2	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	2	3	1	2	2	3	2	4	2	3		
WHICH FORKS	13	4	11	12	10	7	8	3	5	2	15	11	2	13	7	10	9	2	15	7	4	6	1	3	6	11	13	12	1	6	14	10	11	

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
# OF FORKS	0	0	1	2	0	0	0	0	1	2	0	0	1	2	0	1	2	1	0	2	2	0	1	1	1	0	2	1	0	0	0	1	
WHICH FORKS				3	2				4	3			1	2	3	1	2	3		2	1		4	4	3		1	2				3	





TRACK 3 Section 2 TRANSPOSE DOWN - 26 Section - 6:30 - Mic on Right of frame - Begin at 4:15

FRAME 1B 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
 (13) (2) (24) (8) (34) (13) (0) (4) (7) (12) (18) (27) (28) (38)  
 1/1 8/5 28/27 6/5 4/3 16/9 8/5 1/1 9/8 9/7 14/9 27/14 4/3 7/5 2/1

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15
SECTION 1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
# of Forks	4	4	1	2	2	1	4	2	1	3	1	2	3	1	4	4	3	5	4	3	1	2	4	1	3	2
WHICH Forks	13	1	4	5	14	2	10	6	11	3	5	4	13	10	9	14	13	7	12	14	7	13	10	8	13	6
	11	8		7	1	14	1	9		7	15	10	2	12	4	6	15	3	5	15	6	27R	27R	7	10	1
	15	9			6		8								5	11		4	8	9						
	3	12																								

FRAME (HOLD)

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15
SECTION 1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
# of Forks	1	1	1	0	1	2	1	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	1	2	0	2
WHICH Forks	3	2	1		4	4	1				3		4			1	2	3	4				3	1	2	4





TRACK III SECTION 5  
 TRANSPOSE  
 TRANSPOSE DOWN

16 SECTIONS 4:00 DUR - AVE OF FRAME. BEGIN @ 25:45

FRAME 1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
10	27	22	29	30	38	31	14	16	17	24	25	30	31	33	0	15	32	36	
10/7	4/3	10/9	10/7	3/2	2/1	19/9	5/3	9/5	15/8	6/5	5/4	3/2	19/9	5/3	1/1	14/9	8/5	15/8	

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
# of FORKS	1	3	3	3	2	5	5	3	2	5	5	2	2	4	2	3	11	19	19	20	21	22	23	24	25	26	27	28	29	30		
WHICH FORKS	3	8	4	5	14	11	15	11	14	5	12	11	3	14	3	12	11	19	19	20	21	22	23	24	25	26	27	28	29	30		

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
# of FORKS	1	0	1	1	0	0	0	2	2	0	0	0	0	0	0	2	16	18	19	20	21	22	23	24	25	26	27	28	29	30		
WHICH FORKS	3	4	2	1	1	2	4	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

TRACK III SECTION 6 18 SECTIONS 4:30 OUR - MUC OFF FRAME / BEGIN @ 25:45

□ AT MITCH  
 □ TRANSPOSE UP  
 □ TRANSPOSE DOWN

FRAME	1B	2T	3B	4T	5B	6T	7B	8	9	10	11	12	13	14	15	HAND HELD	1	2	3	4
0	9	20	28	27	29	37	37	2	7	17	20	23	32	36	38	4	11	24	33	
1/1	7/5	28/27	7/5	4/3	10/7	27/19	27/19	16/15	9/17	15/8	28/27	9/8	8/5	15/8	2/1	9/8	3/2	6/5	5/3	

**FRAME**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
# of Forks	1	3	4	7	5	2	5	4	3	3	4	3	3	4	3	2	5	6	5	4	3	2	1	1	1	1	1	1	1	1	1
WHICH Forks	3	5	13	12	14	1	14	7	11	6	11	5	15	9	12	1	7	4	5	13	1	11	12	13	14	15	16	17	18	19	20

**HAND HELD**

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
# of Forks	0	1	2	0	2	0	1	2	0	1	0	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WHICH Forks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	













TRACK III SECTION 12 DATE MITCH  
~~TRANSPOSE UP~~  
~~TRANSPOSE DOWN~~ 30 SECTIONS 1:30 DUR - MID OF FRAME. BEGIN @ 56:30

FRAME 1B 2T 3B 4T 5B 6T 7B 8 9 10 11 12 13 14 15 HAND HELD 1 2 3 4  
 2 5 7 6 10 33 17 7 13 19 25 28 30 37 0 20 27 38  
 16/15 6/5 9/7 5/4 10/7 5/3 15/8 9/7 8/5 2/1 9/8 5/4 7/5 3/2 27/14 1/1 28/27 4/3 2/1

FRAME

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30
SECTION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
# of FORKS 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
WHICH FORKS 3	14	10	7	5	8	13	4	7	3	5	12	1	5	3	2	7	9	8	4	10	5	9	2	13	5	10	7	3	14		
	6	12	11	13	11	15	10	9	6	13	11	11	15	14	11	11	13	10	13	3	14	14	4	4	4	6	9	12	9		

HAND HELD

TIME	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	
SECTION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
# of FORKS 2	1	1	2	0	0	1	0	0	0	1	0	0	1	2	0	0	0	0	1	1	1	0	1	0	1	2	1	1	2			
WHICH FORKS 3	2	4	4			2				1			3	2				4	4	1	4	3	2	1	1	3	2	4	3	1		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		