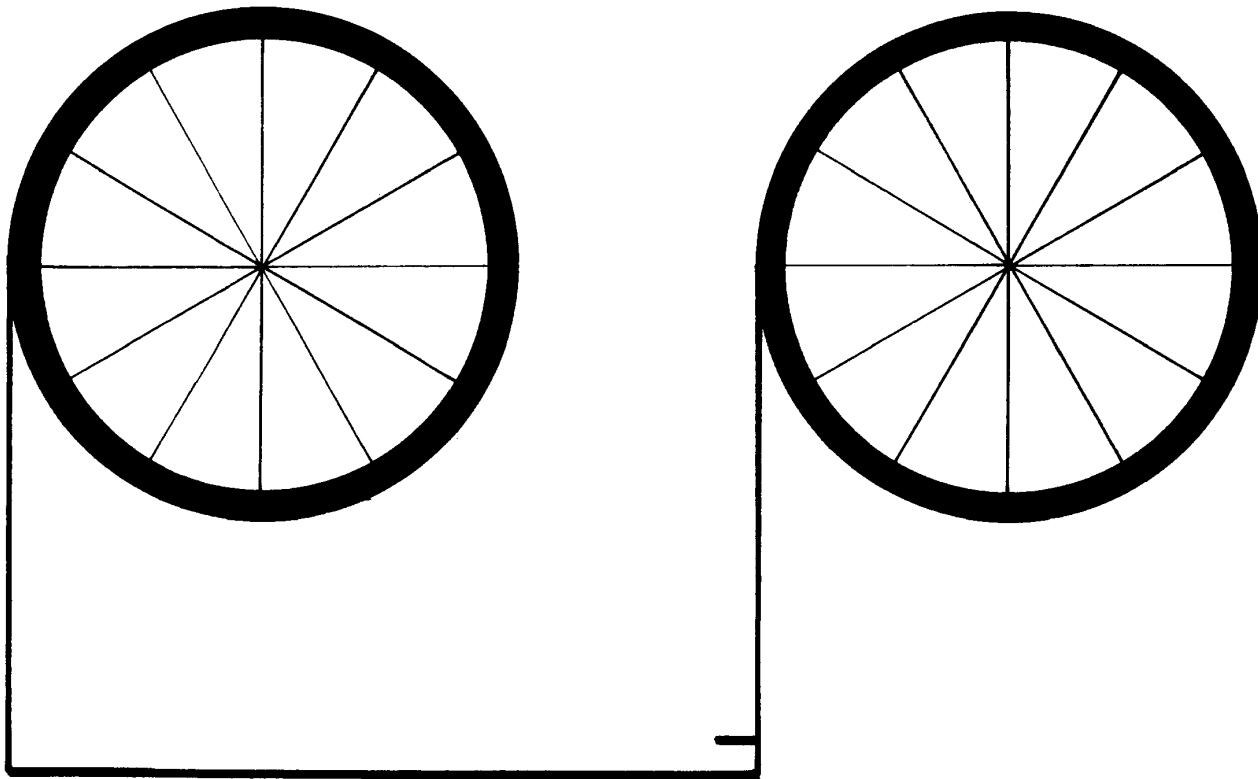


TRAVELON GAMELON

for three amplified bicycles

by Richard Lerman

© 1978, rev. 1991



2 TRAVELON GAMELON: for 3 amplified bicycles

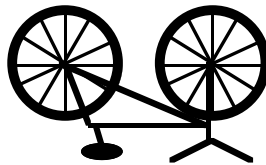
by Richard Lerman ©1978, rev. 1991

Needed for performance:

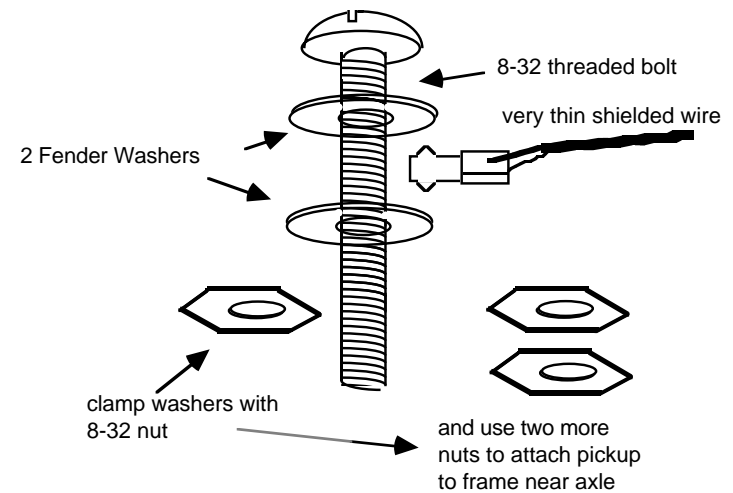
1. 3 bicycles (10 speeds preferred)
2. 6 pickups attached for each wheel near axle
3. preamps and/or stereo mixer
4. 2-4 loudspeakers
5. 6 performers for the bicycles
6. 1 or more performer for electronics

Performance Instructions

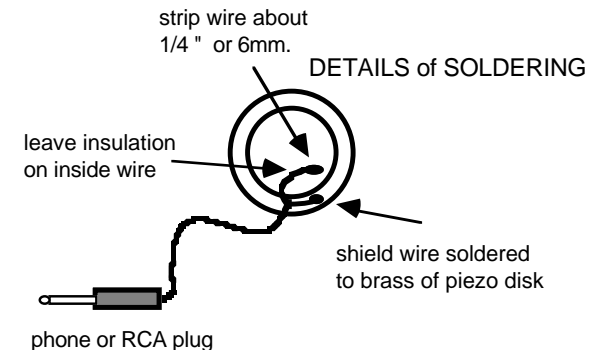
1. Rest bicycles upside down on seat and handlebars
2. Mark 'key' spoke with tape. As wheel rotates, this 'downbeat' spoke will be more visible
3. The two notation systems are equivalent
4. Rear Wheel begins each bicycle. Turn crank slowly so that the wheel rotates about one revolution in 3 seconds. Try to keep the speed even. If necessary, stop cranking and allow wheel to slow down
5. Front wheel is turned by hand in same direction as back wheel, and at same rate of speed. Keep the speed (tempo) even
6. Sections I and III explore rhythmic elements
7. When many notes are being played, the feeling of increasing or decreasing speed is more important than exact rhythms
8. Section II, the Free Section is more improvisatory--performers should listen carefully to each other. At the discretion of the electronics performer, each wheel need not always be amplified in this section



The best sound will come from ceramic phonocartridges which are mounted between fender washers on an 8-32 bolt as shown below. The phono cartridge can be an EV 81T, which must be taken apart and carefully soldered as shown. Clamp the plastic needle between the washers.



It is also possible to use piezo disks



(Bicycle 1) (Bicycle 2) (Bicycle 3)

96 sec

108 sec

96 sec

ca. 6 min.

128 sec.

Section I

Section II

Section III

+

with proper amplification
the sound of the wheels
spinning at the end can be
extended for 2 minutes

Richard Lerman Music
c/o Frog Peak Music
Box A 36
Hanover, NH 03874 USA

BMI

- Scores must be on the floor
- Arrange bicycles to emphasize performing space
- additional electronics may be used to modify sounds of bicycles though I no longer do this.

Symbols for Free Section



strike frame and/or handlebars



strike quick-release and/or axle



apply brakes and stop wheel



spin pedals only



apply brakes or pressure to rim, at intervals



strike chain



strike tire



with wheel spinning fast - brush spokes - long burst



fast spinning wheel - brush spokes - short burst



fast spinning wheel - brush spokes - short burst



rub chain



rub a spoke



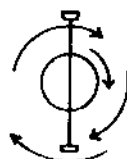
rub tire



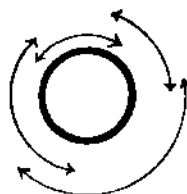
pluck brake cable



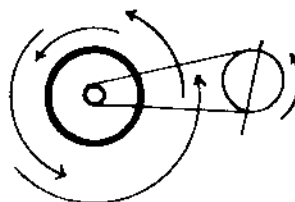
rub tire with wheel spinning



spin freewheel at various speeds



spin tire at various speeds, by hand



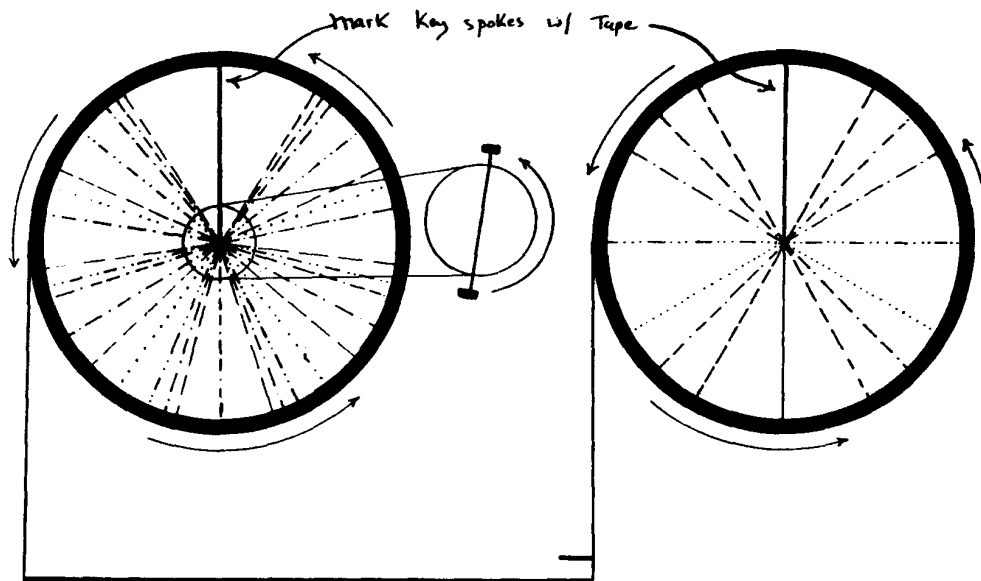
spin back tire at various speeds, using pedals

4.

Bicycle #1

Travelon Gamelon

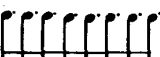




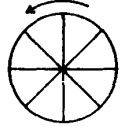
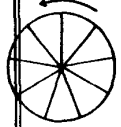
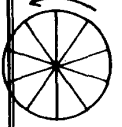
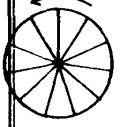
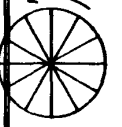






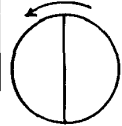

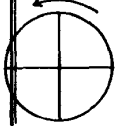
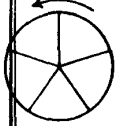
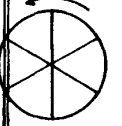

divisions of fifths, sevenths,
ninth, tenth + eleventh






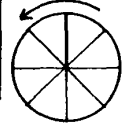
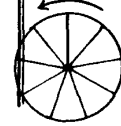
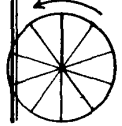
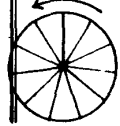



divisions of halves, thirds,
quarters, sixths, eighths + twelfths.

music notation	play 3 times $\frac{3}{4} p$	play 3 times p	play 3 times p	play 3 times p	play 3 times $\frac{5}{4} p$	play 3 times p	play 2 times $\frac{7}{4} p$
graphic notation	rear wheel 						
	$p = 2 \text{ seconds}$						
music notation	$\frac{3}{4}$						play 2 times p
graphic notation	front wheel 						

5.

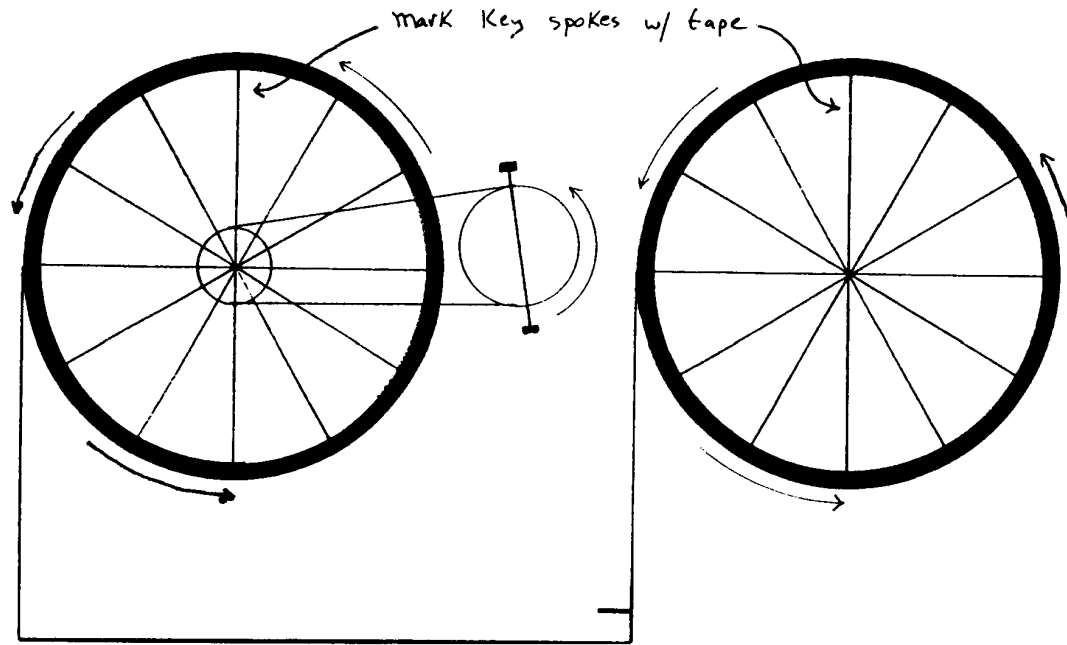
	play 2 times	play 2 times	play 2 times	play 2 times	play 2 times	
rear wheel	$\frac{3}{4}$ 					
						
front wheel	$\frac{3}{4}$ 					
						

	play 3 times	play 3 times	play 3 times	play 3 times	play 3 times
rear wheel	$\frac{3}{4}$				
front wheel	$\frac{3}{4}$ 				
					

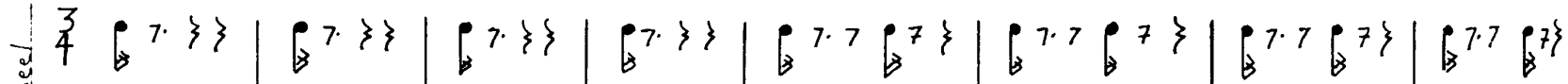
Bicycle #2 Begins

Bicycle #2

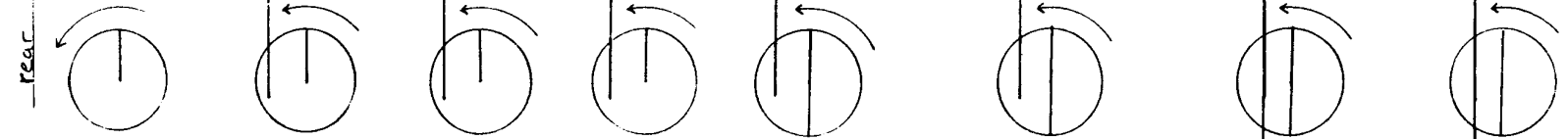
Travelon Gamelon



music notation



graphic notation



p = 2 seconds

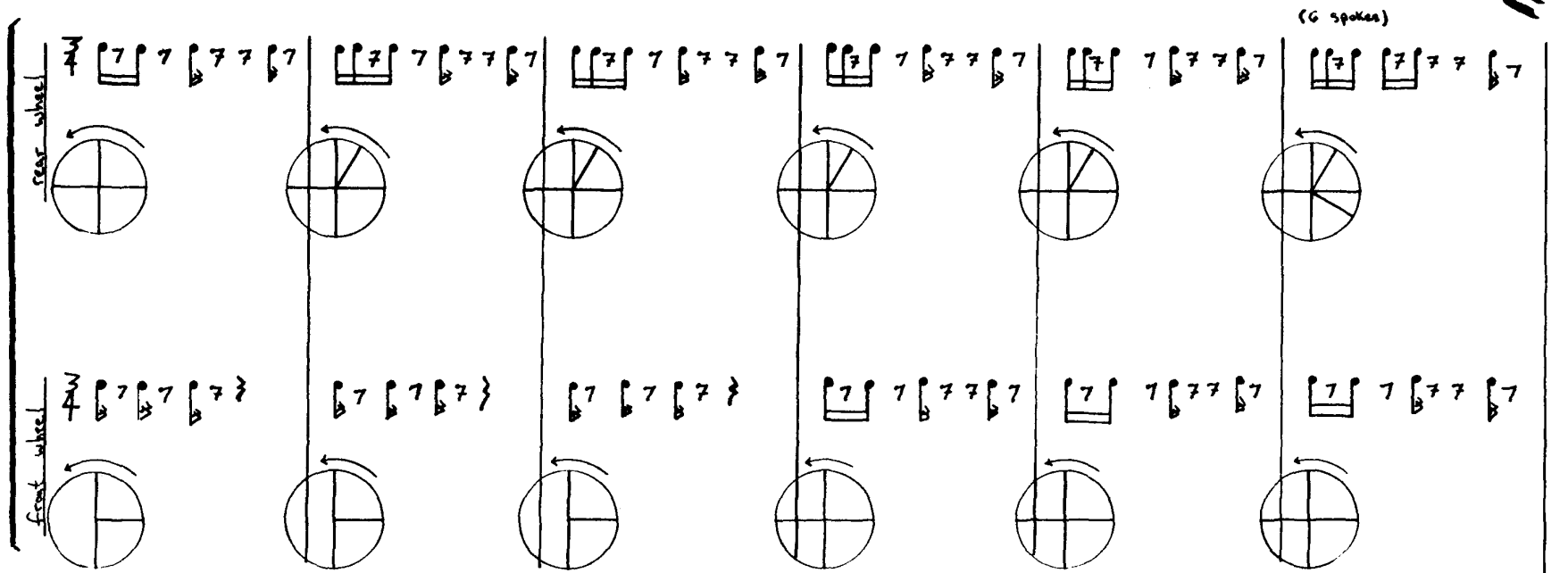
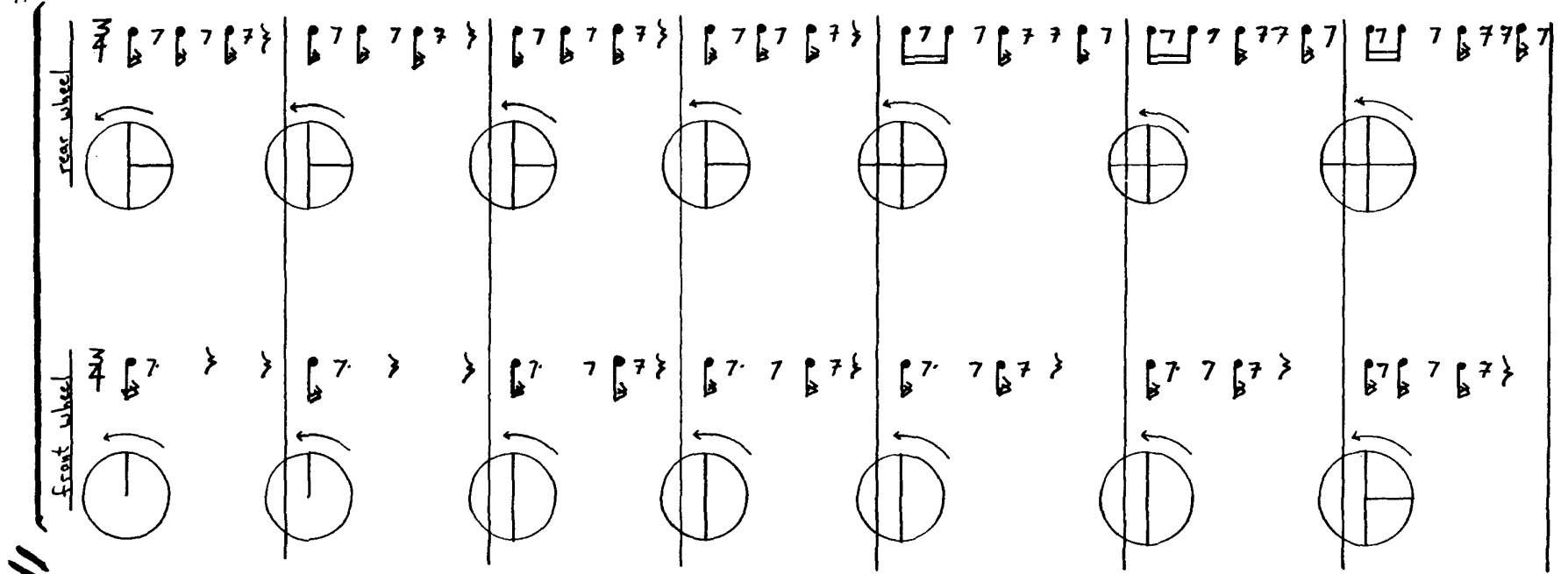
music notation

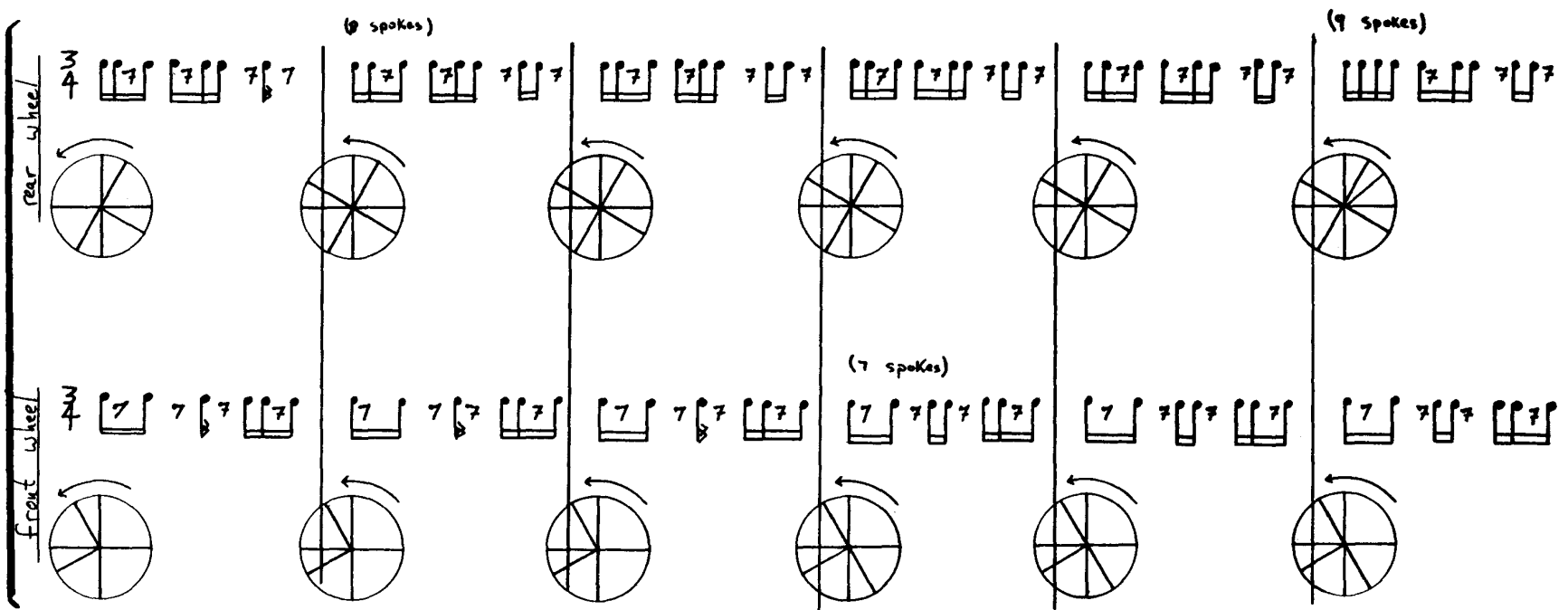
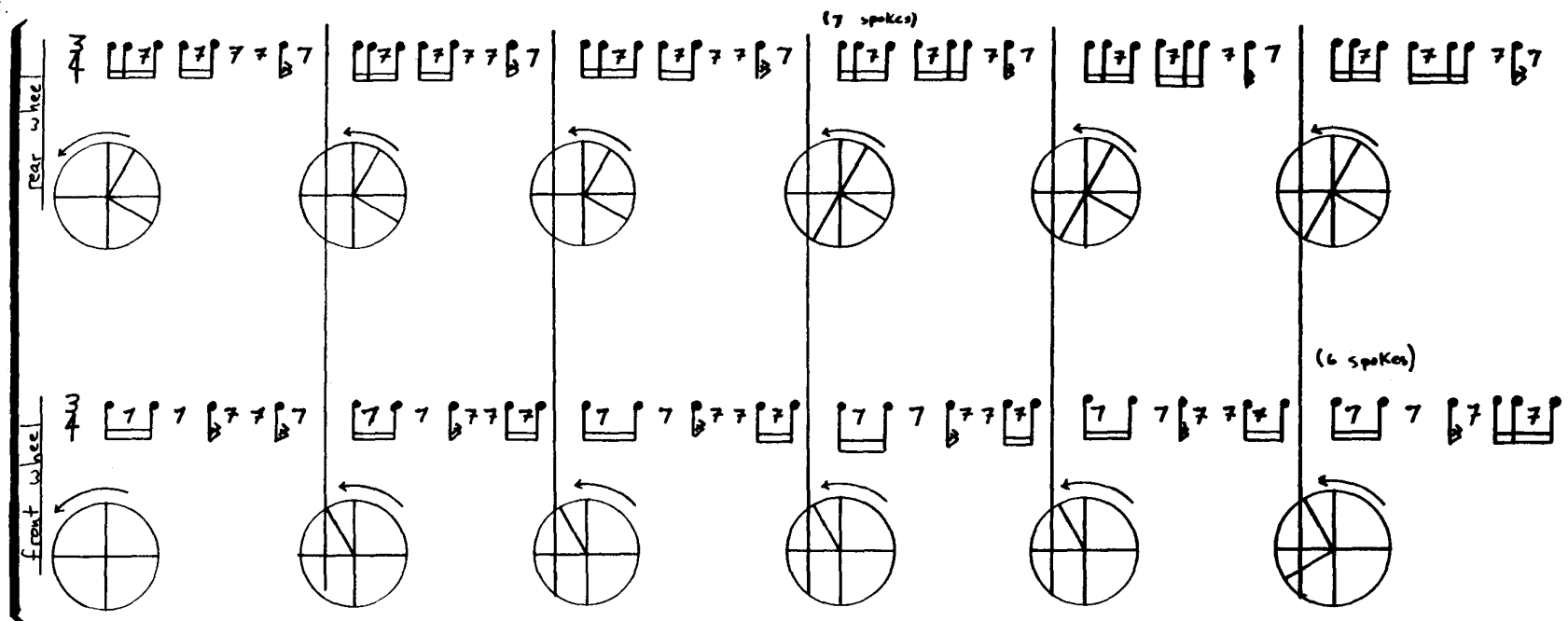


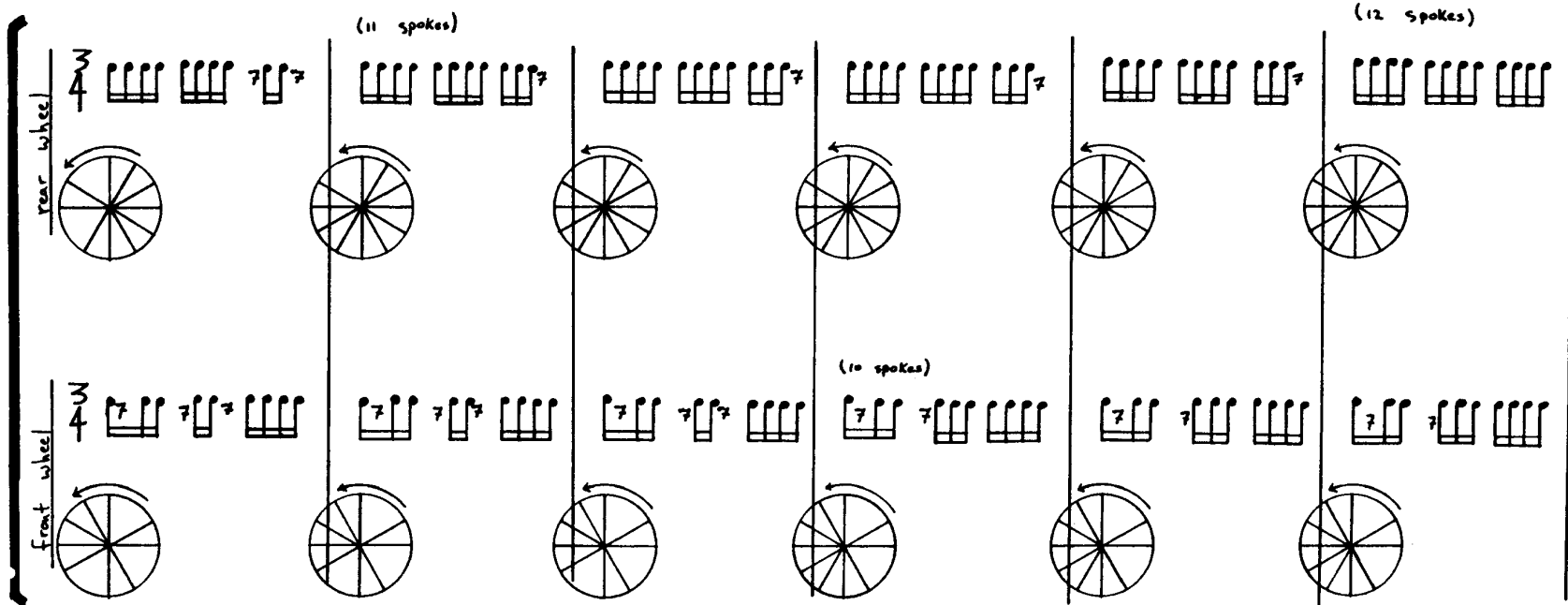
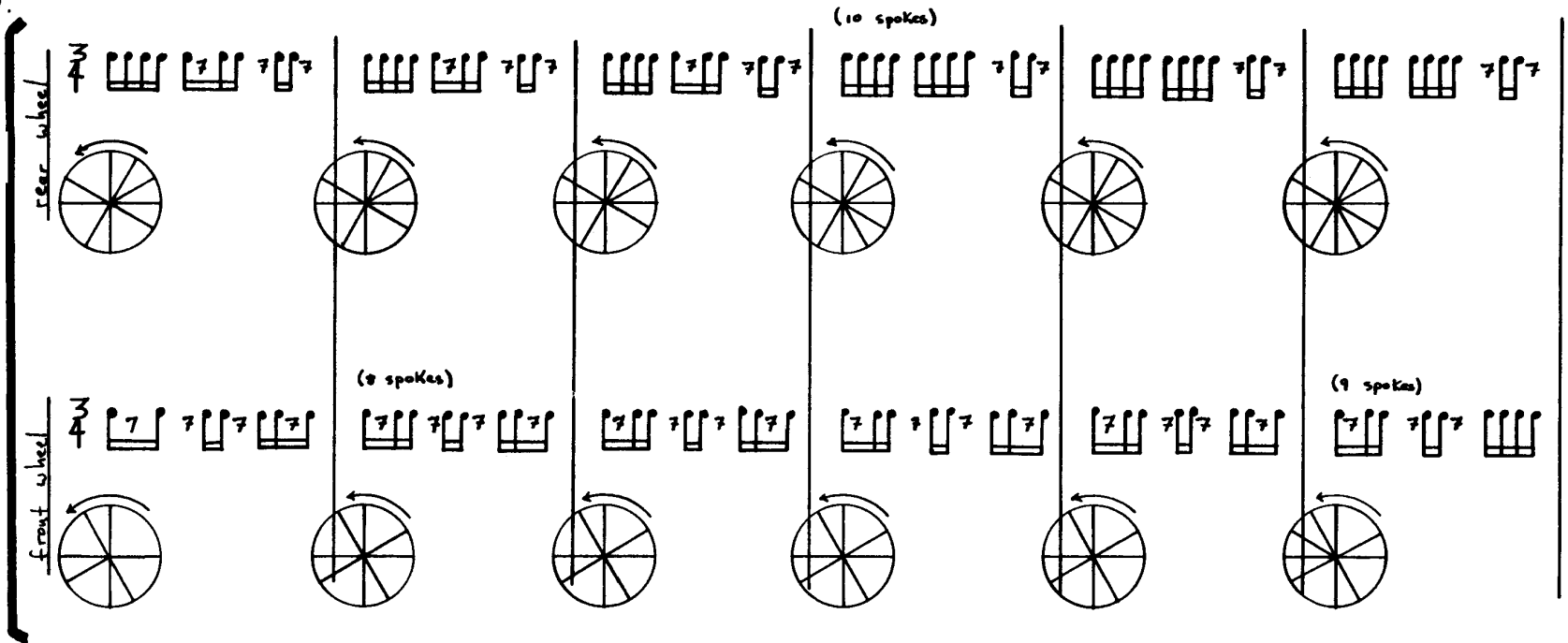
graphic notation

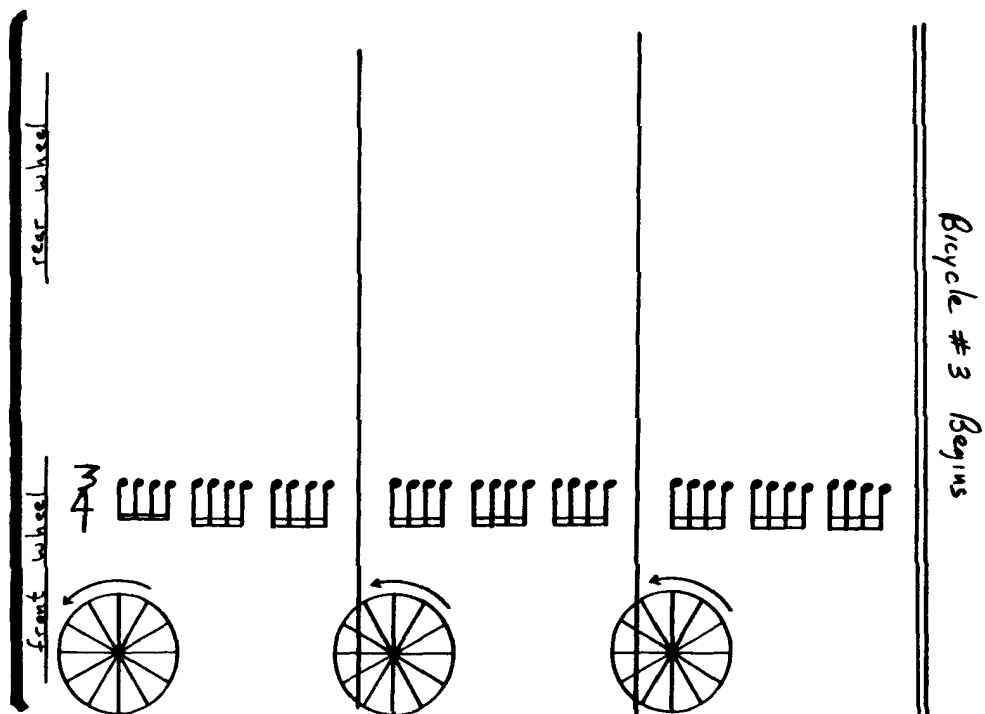
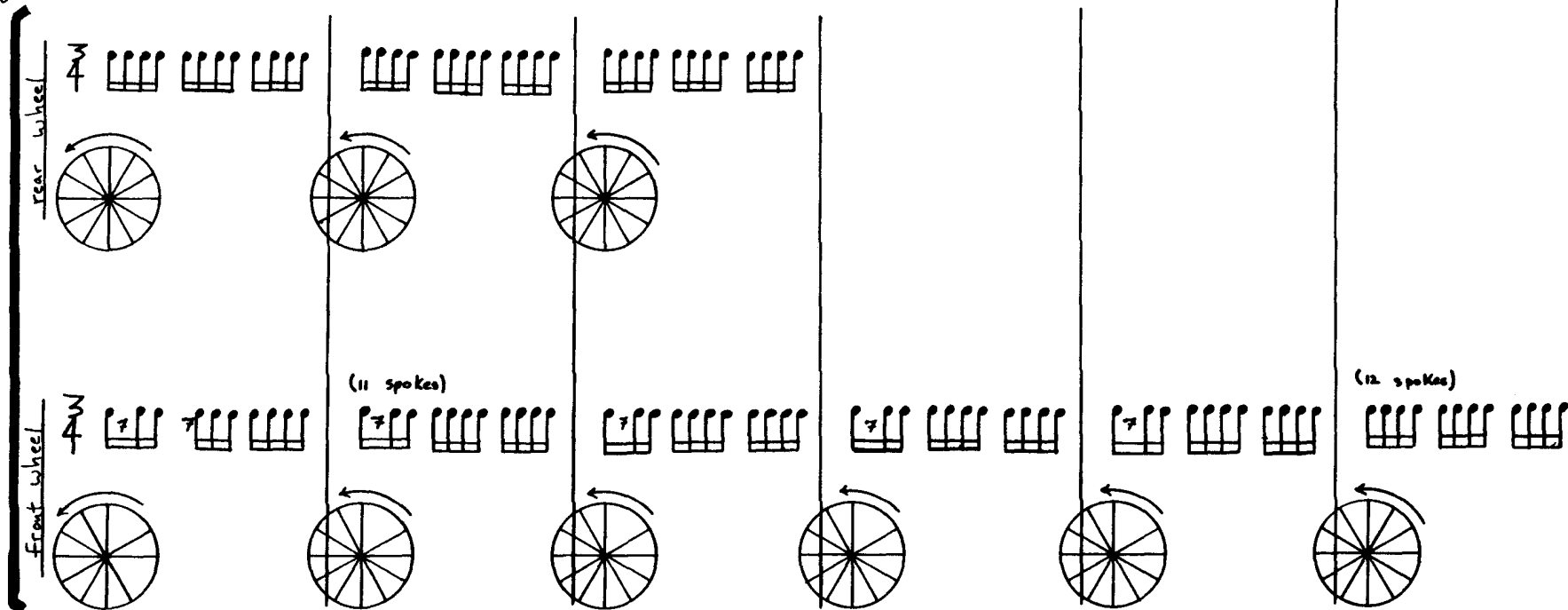


7.



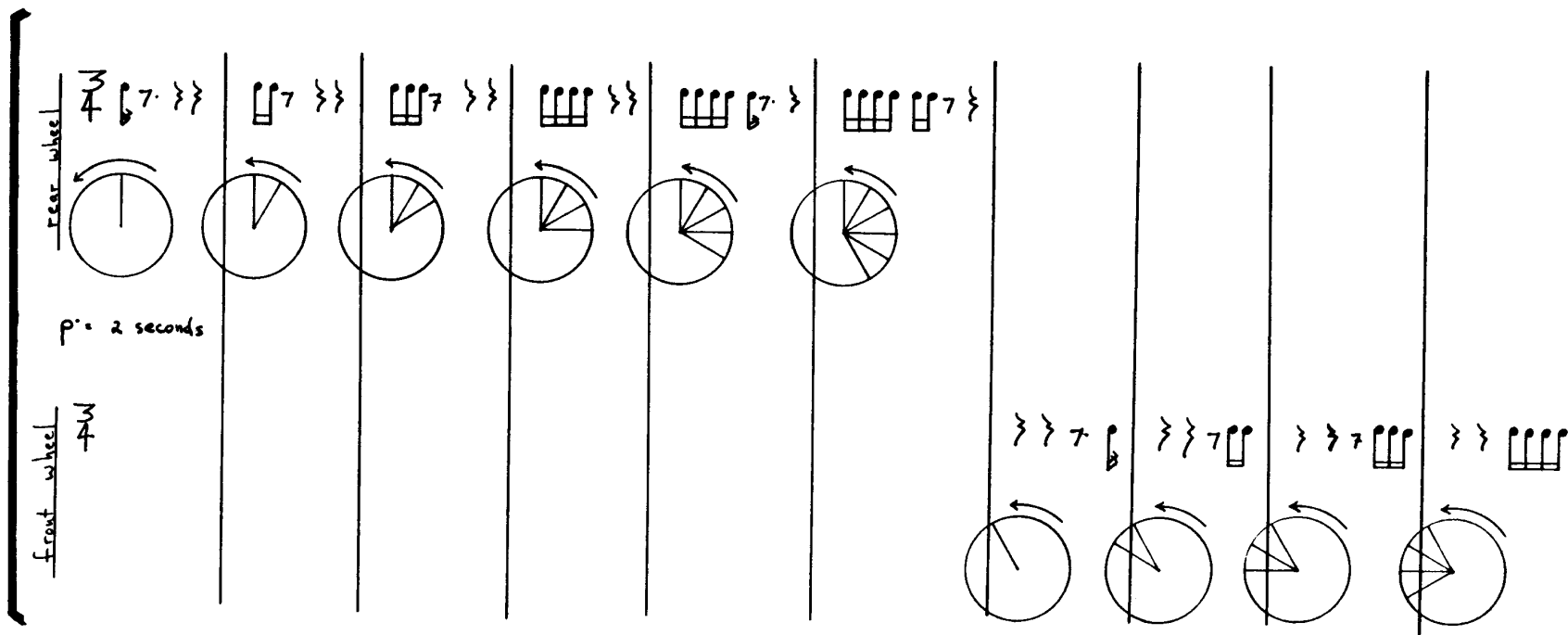
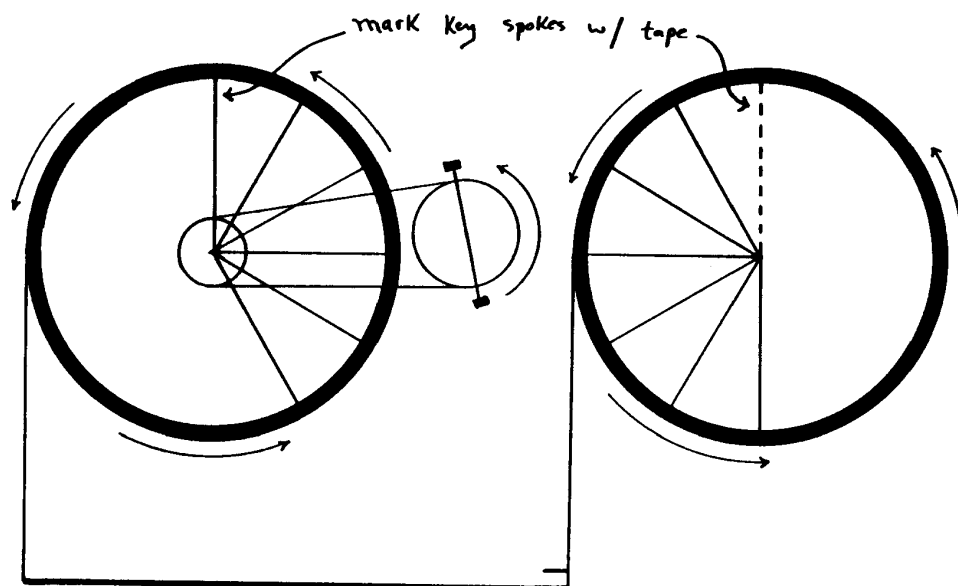






Bicycle #3

Travelon Gamelon



rear wheel	3 4	play 3 times b 7 } }	play 3 times p 7 } }	play 3 times p p 7 } }	play 3 times p p p } }	play 3 times p p p b 7 }
front wheel	3 4 } 7 b p p p	3 4 } 7 p p p p	3 4 } 7 p p p p	3 4 } 7 p p p p	3 4 } 7 p p p p	3 4 } 7 p p p p

rear wheel	play 3 times 3 4 p p p p 7 }	play 3 times 7 p p p 7 }	play 3 times 7 p p 7 }	play 3 times 7 b p 7 }	play 3 times 3 p 7 }	play 3 times 3 7 b 7 }	play 3 times 3 } }
front wheel	play 3 times 3 4 } 7 p p p p	play 3 times 3 7 p p p p	play 3 times 3 7 p p p p	play 3 times 3 7 p p p p	play 3 times 3 7 p }	play 3 times 3 7 b 7 }	play 3 times 3 } }

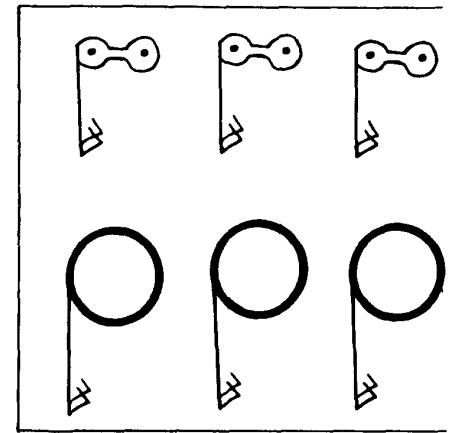
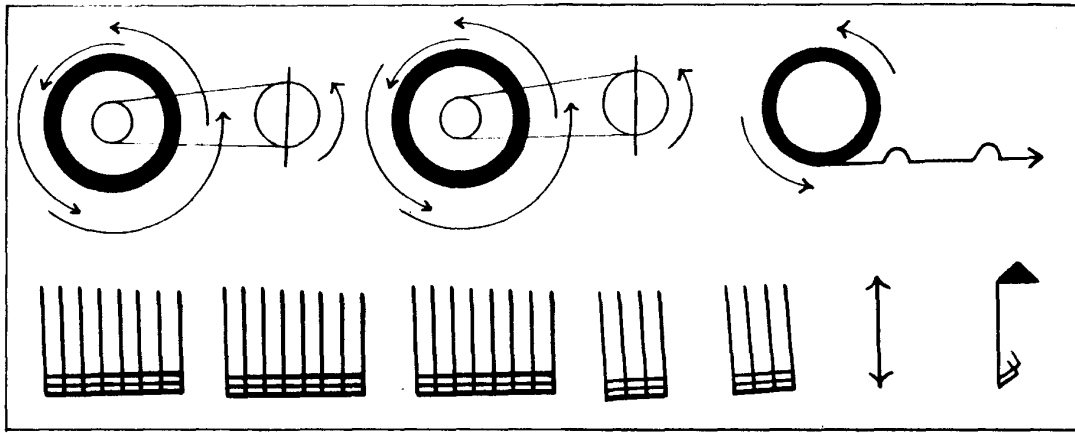
13.

FREE SECTION (II)

rear wheel

Bicycle #1

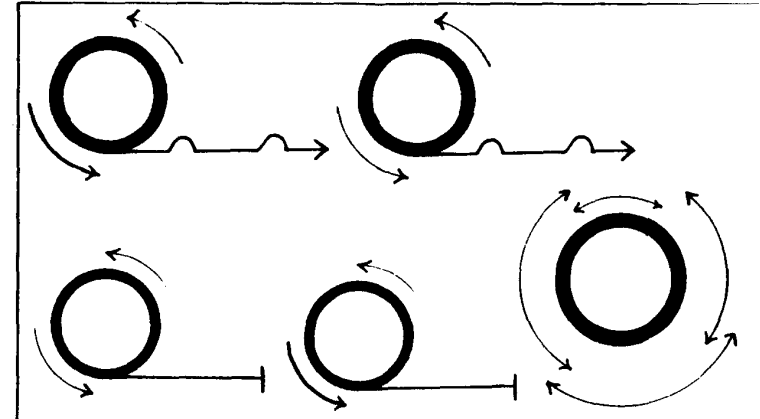
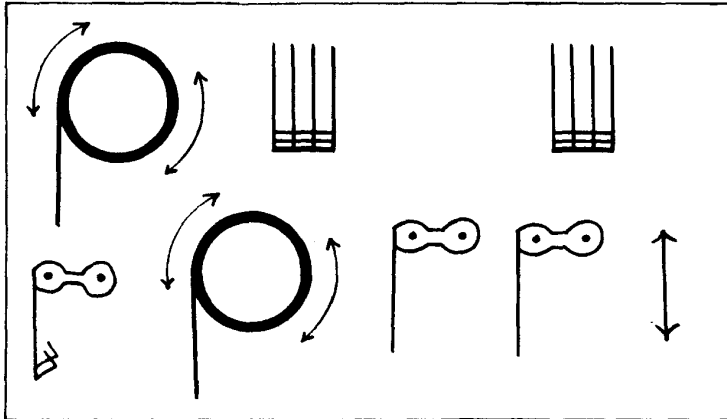
front wheel



rear wheel

Bicycle #2

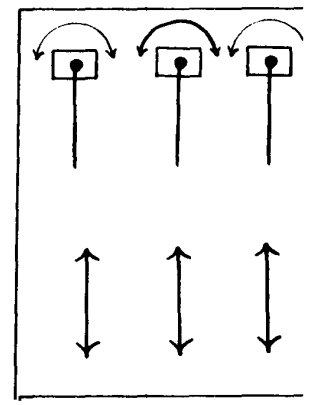
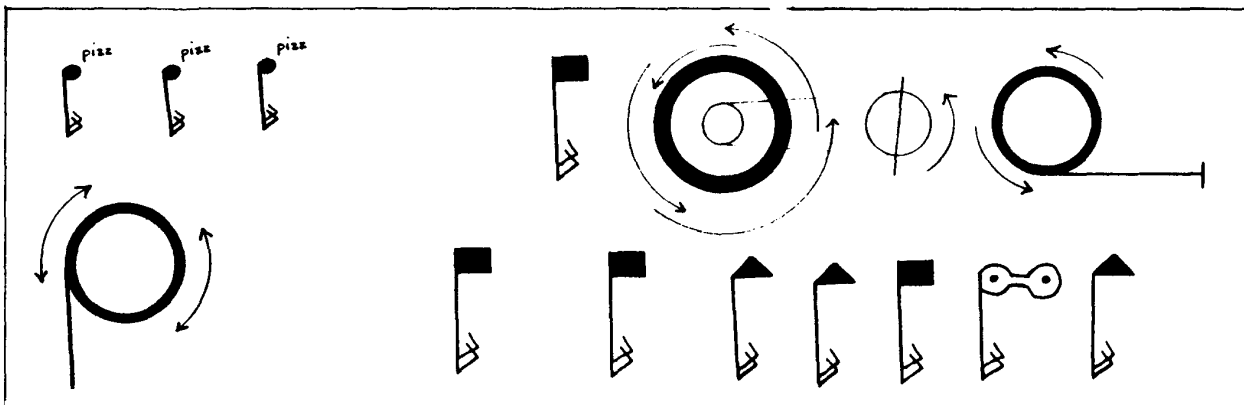
front wheel

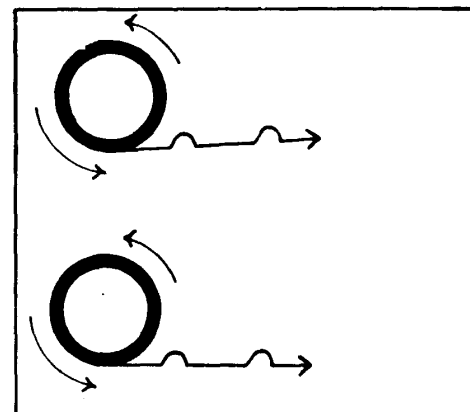
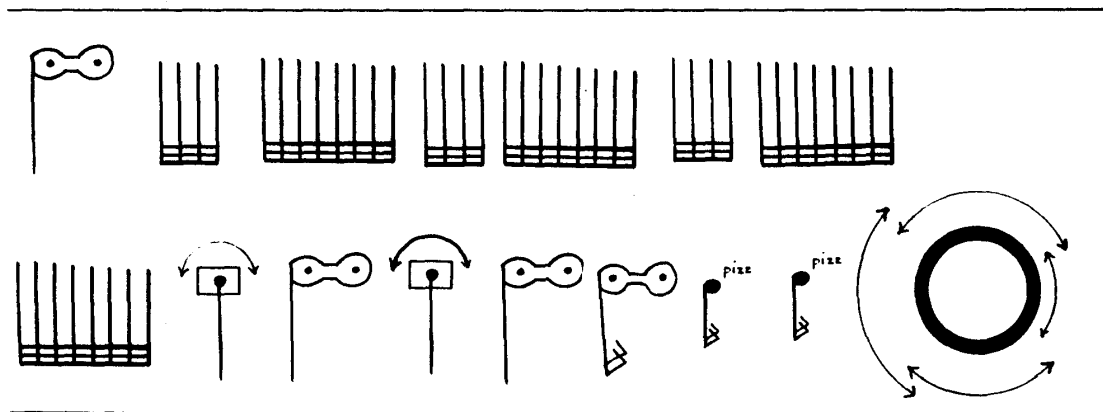
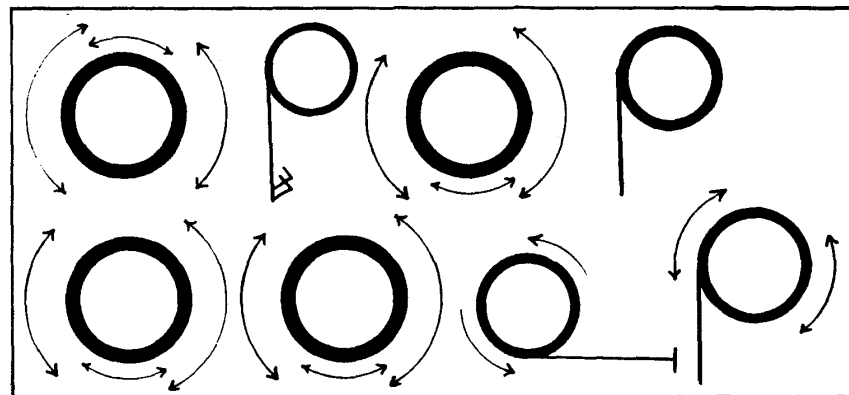
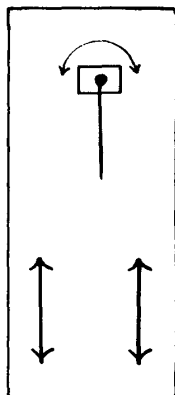
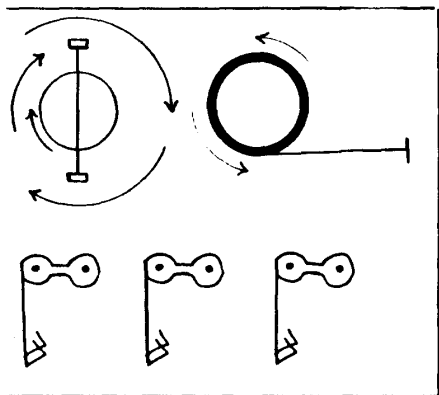
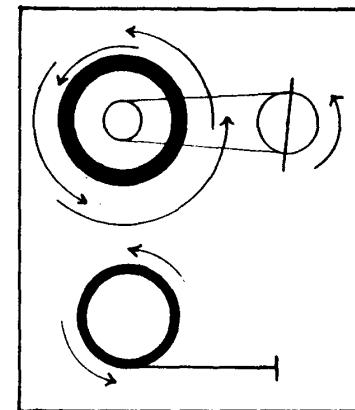
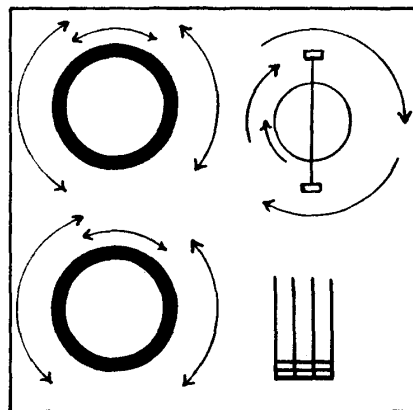
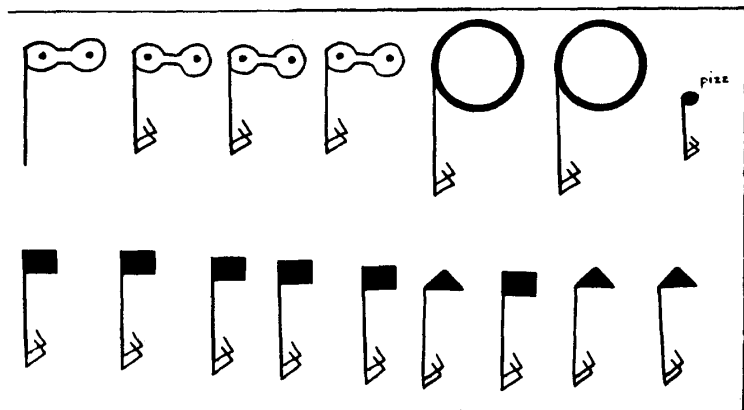


rear wheel

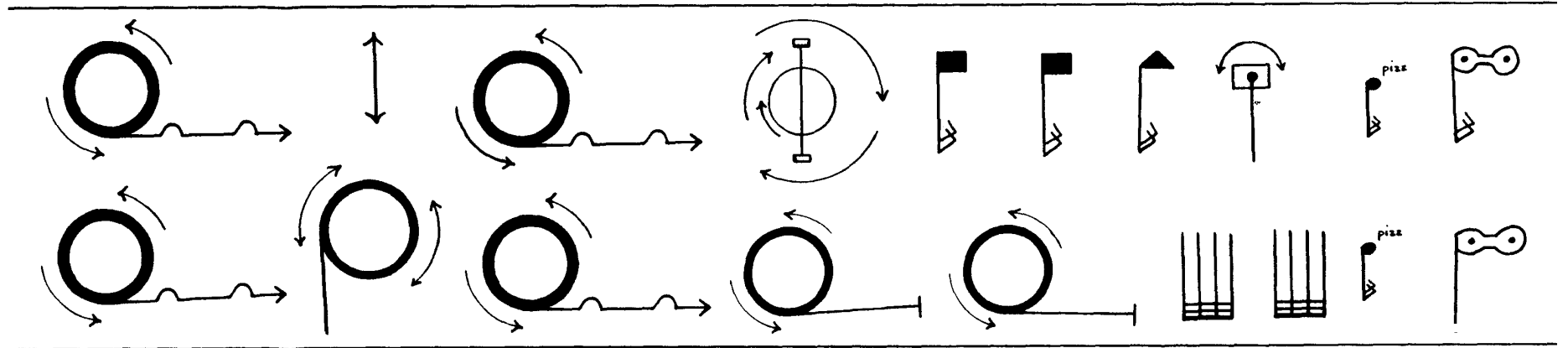
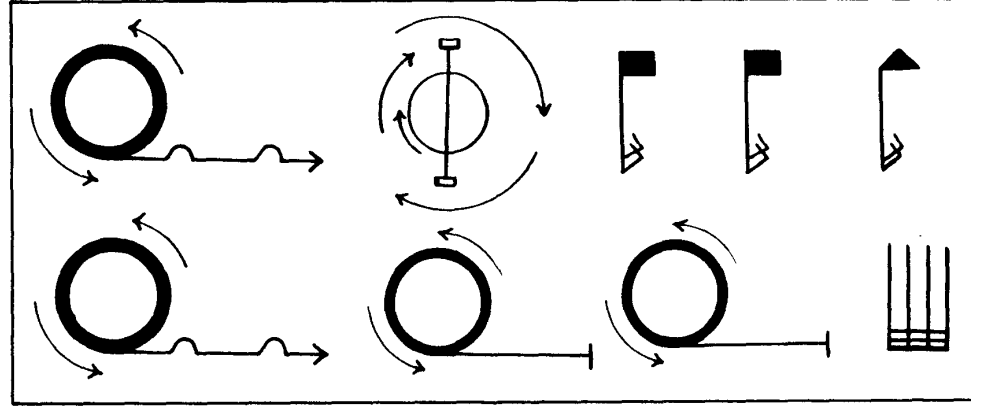
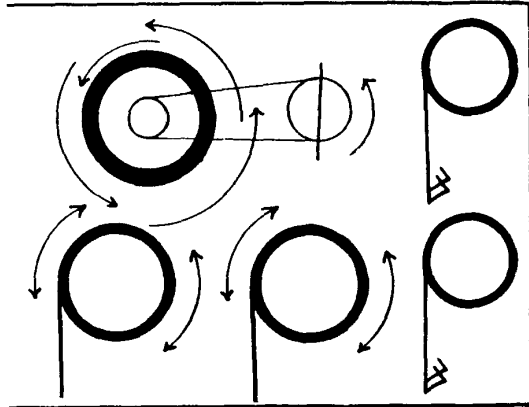
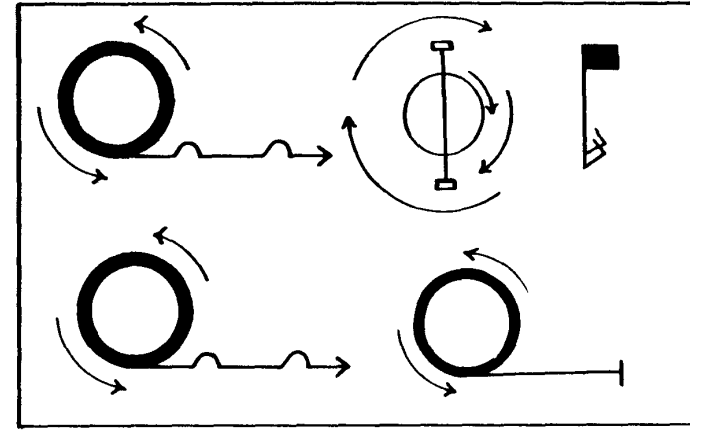
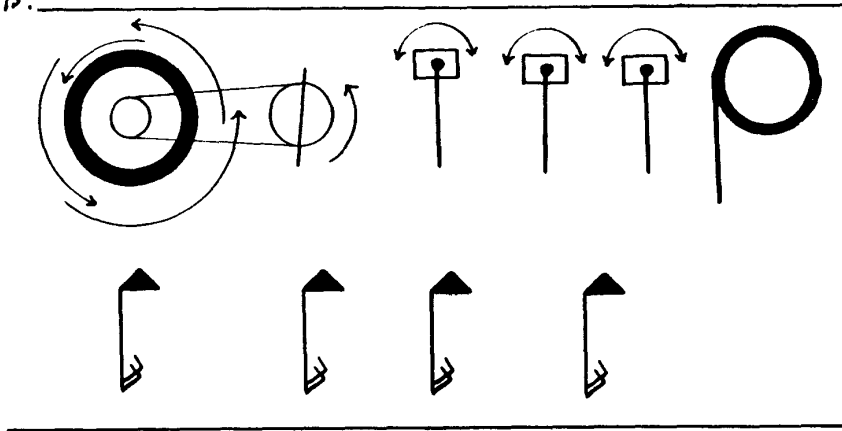
Bicycle #3

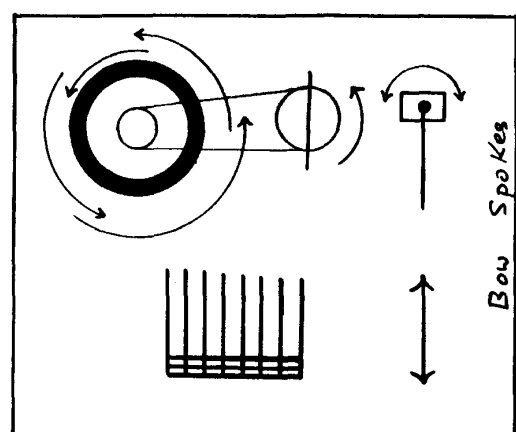
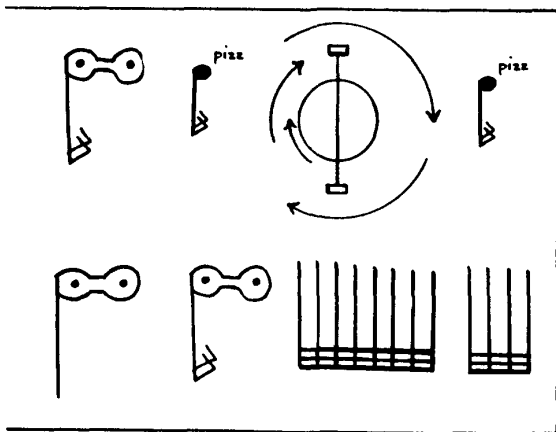
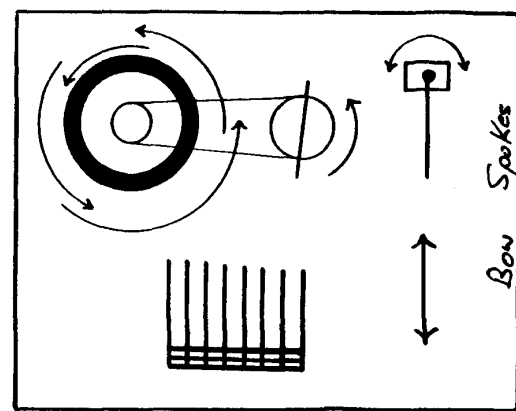
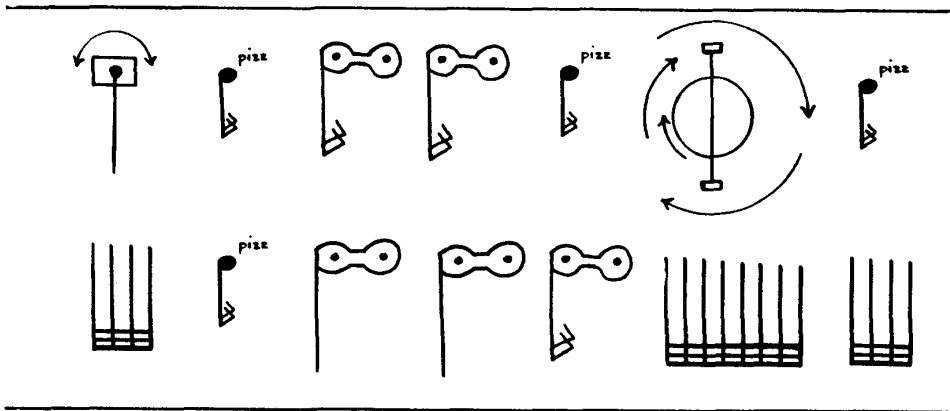
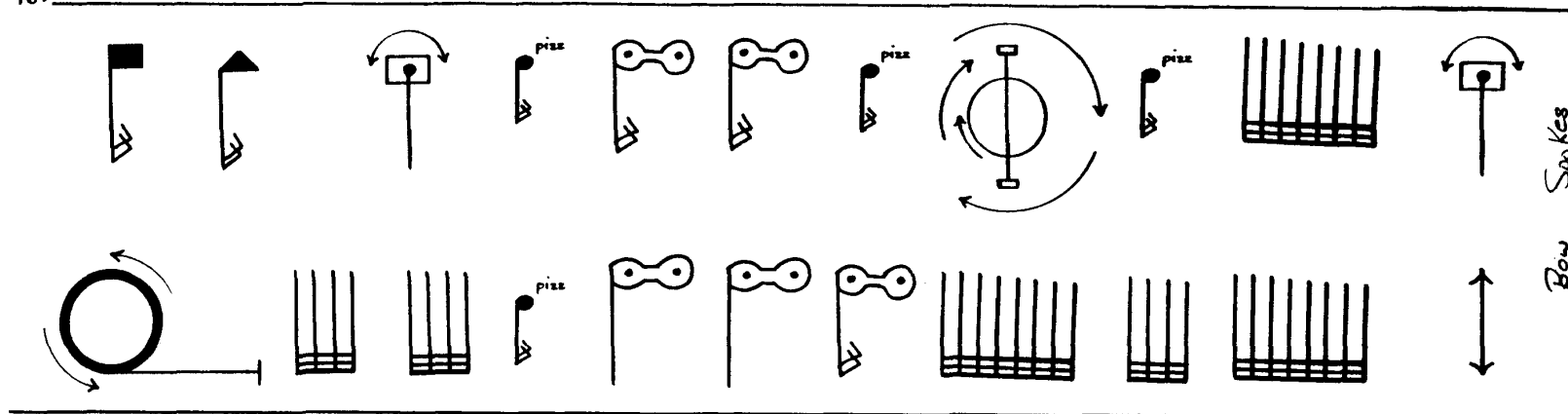
front wheel





15.





Section III

Bicycle #1
front wheel 3
rear wheel 4

Bicycle #2
front wheel 3
rear wheel 4

Bicycle #3
front wheel 3
rear wheel 4

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

play 3 times

}

}

}

}

}

}

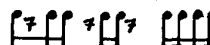
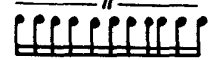
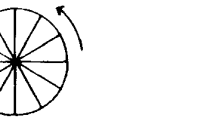
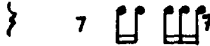
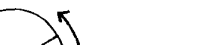
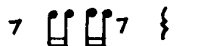
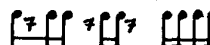
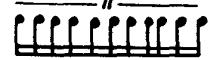
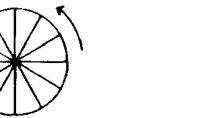
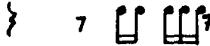
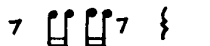
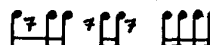
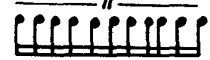
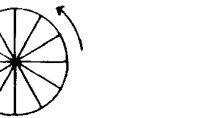
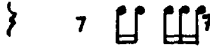
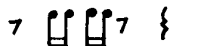
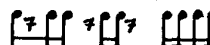
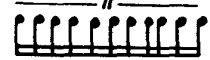
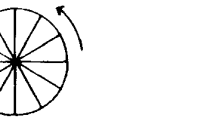
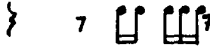
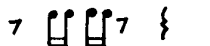
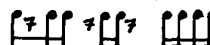
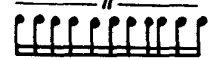
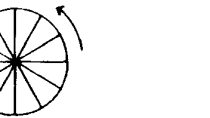
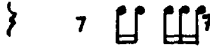
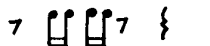
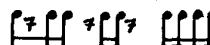
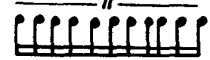
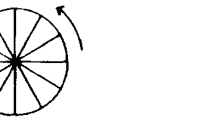
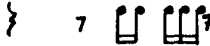
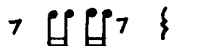
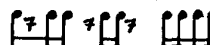
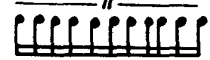
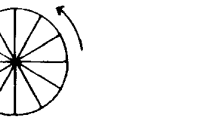
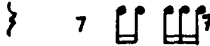
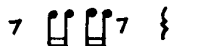
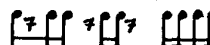
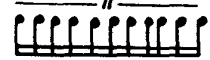
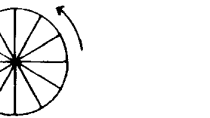
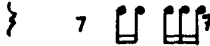
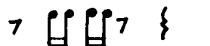
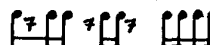
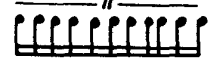
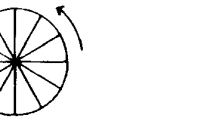
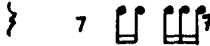
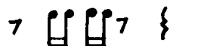
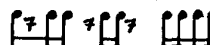
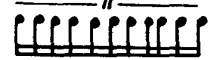
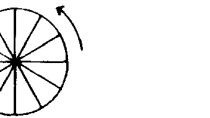
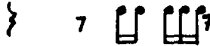
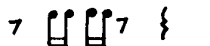
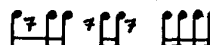
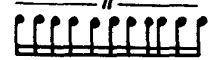
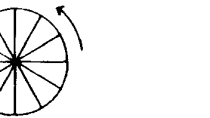
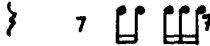
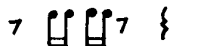
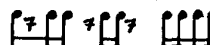
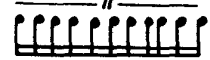
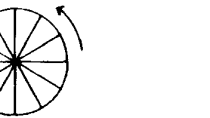
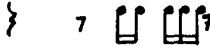
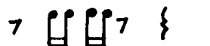
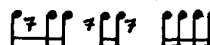
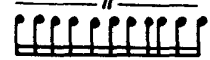
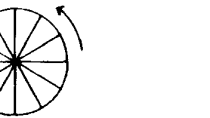
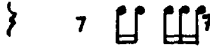
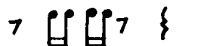
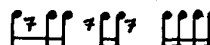
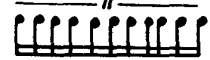
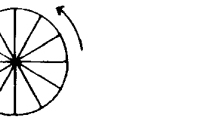
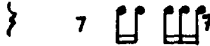
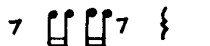
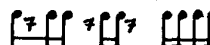
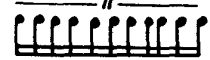
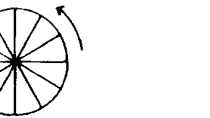
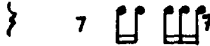
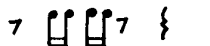
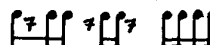
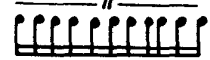
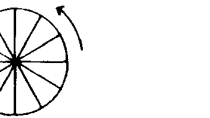
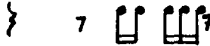
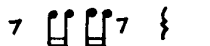
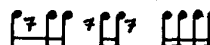
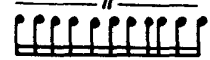
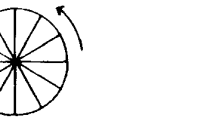
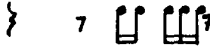
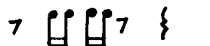
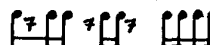
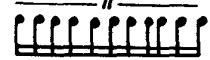
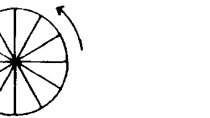
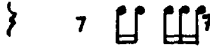
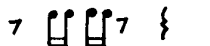
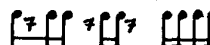
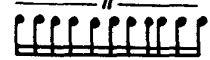
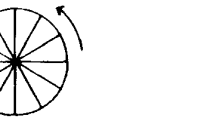
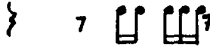
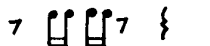
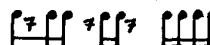
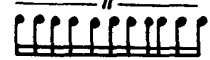
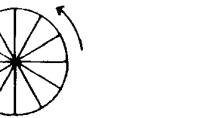
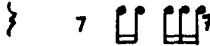
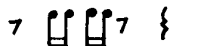
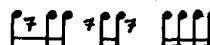
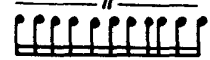
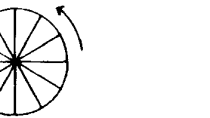
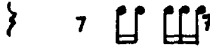
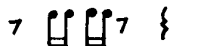
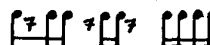
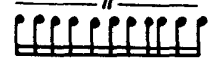
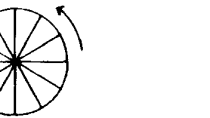
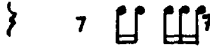
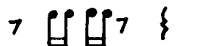
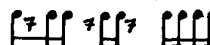
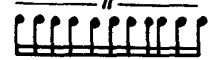
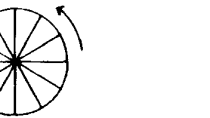
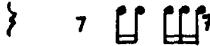
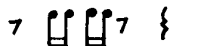
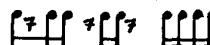
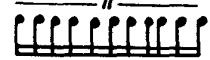
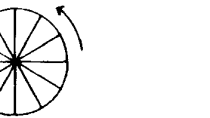
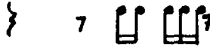
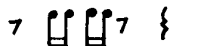
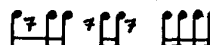
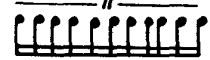
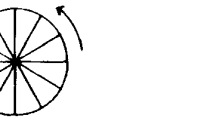
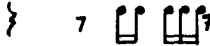
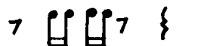
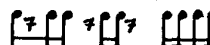
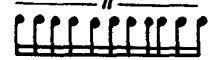
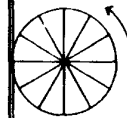
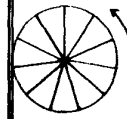
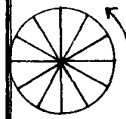
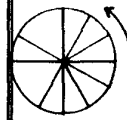
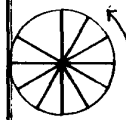
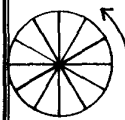
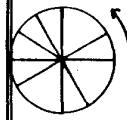
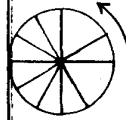
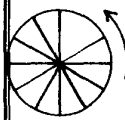
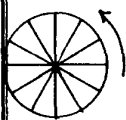
}

}

}

}

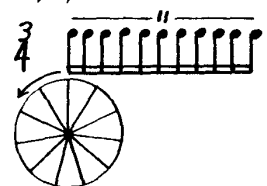
}



play each bar 3 times

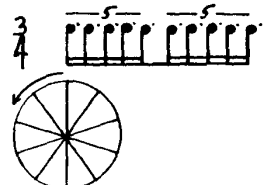
Bicycle #1

rear wheel



play each bar 3 times

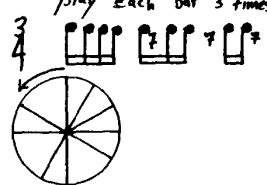
front wheel



play each bar 3 times

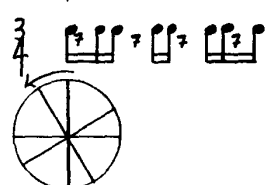
Bicycle #2

rear wheel



play each bar 3 times

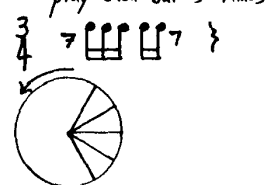
front wheel



play each bar 3 times

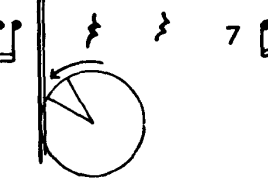
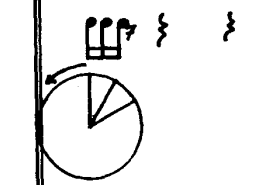
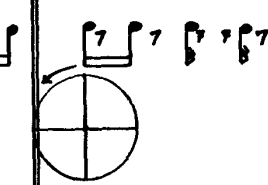
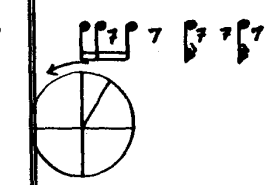
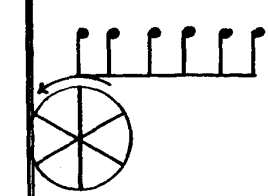
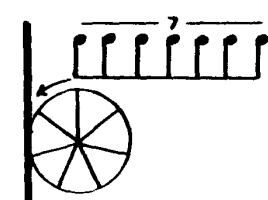
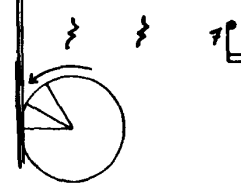
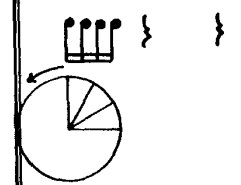
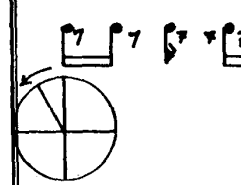
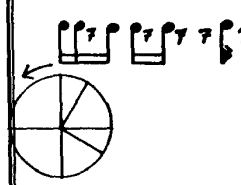
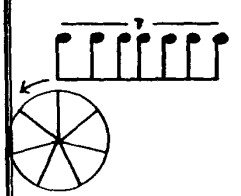
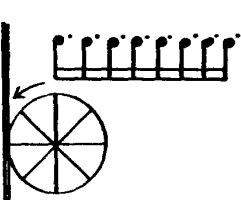
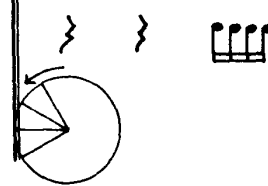
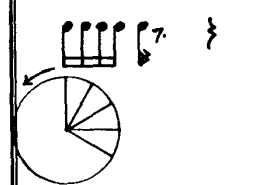
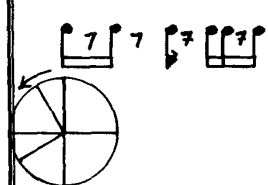
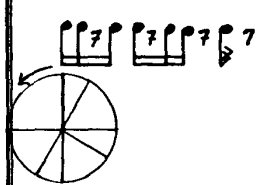
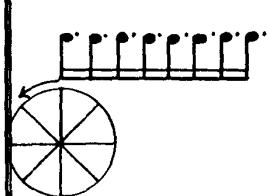
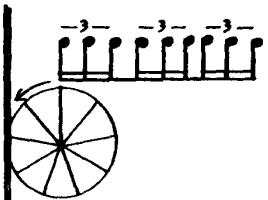
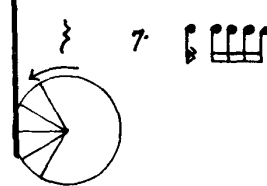
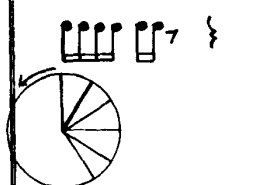
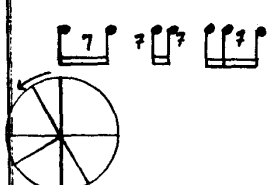
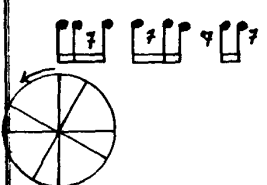
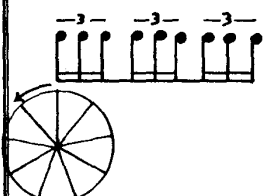
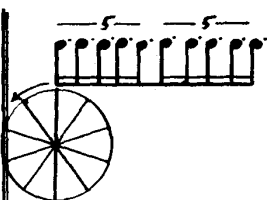
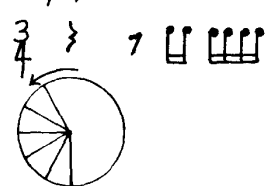
Bicycle #3

rear wheel



play each bar 3 times

front wheel



Bicycle #1

rear wheel

4/3

front wheel

4/3

play each bar 3 times

5.

Spin wheel very fast - let stop

Spin wheel very fast - let stop

Bicycle #2

rear wheel

4/3

front wheel

4/3

play each bar 3 times

Spin wheel very fast - let stop

Spin wheel very fast - let stop

Bicycle #3

rear wheel

4/3

front wheel

4/3

play each bar 3 times

Spin wheel very fast - let stop

Spin wheel very fast - let stop