Friction Systems

for sextet

David M. Gordon

Friction Systems

for eighth blackbird

Duration: ca. 13'

Instrumentation

Flute

Doubling:

Prepared Piano (shared with pianist)



Prepared Piano (shared with flautist)

Abbreviations

B Cl — Bb Bass Clarinet B G — Bowl Gongs Bk D — Brake Drums Bls — Orchestra Bells Cl — Bb Clarinet Cro — Crotales Fl — Flute HP — Hard Plastic Mallets HR — Hard Rubber Mallets HY — Hard Yarn Mallets MR — Medium Rubber Mallets P / B — Flower Pot and Rice Bowls Pc — Percussion Pno — Prepared Piano P P — Pitch Pipe SP — Soft Plastic (Xylophone) Mallets TB — Triangle Beater T Pn — Toy Piano Th T — Thunder Tube Vc — Violoncello Vln — Violin W T — Whirling Tube(s)

Special Notations

The clarinet part is written at sounding pitch

Special Performance Note

Throughout the work, all percussion instruments must be allowed to ring.

Table of Piano Preparations

<u>Pitch</u>	Recommended <u>Screw Size</u> *	Distance from <u>Damper</u> *	Additional <u>Pitch Produced</u>	<u>Other</u>
	#6-32 x 1/2"	ca. 5/8" from wood		
	#8-32 x 1/2"	ca. 2 1/4"	e ba	
	#8-32 x 1/2"	ca. 2 7/8"		
¢.	#8-32 x 1/2"	ca. 3 5/8"		
	#8-32 x 1/2"	ca. 3 7/8"		
) o ()	#8-32 x 1/2"	ca. 4 7/8"		
	#10-24 x 1/2"	(ca. 3 1/2")		
•	#10-24 x 1/2"	(ca. 3 3/4")		
0	#10-24 x 1/2"	(ca. 4 1/4")		
2 bo	#10-24 x 1/2"	ca. 4 1/4"		
<u>}</u> 0	#10-24 x 1/2"	ca. 7"	0	
<u>}</u>	#10-24 x 1/2"	(ca. 6")		
6 0	#10-24 x 1/2"	(ca. 6 3/4")		
¢ ,o	#10-24 x 1/2"	(ca. 7 1/2")		
6 • •	#10-24 x 1/2"	(ca. 8")		
• •	1/4" x 1/2"	(ca. 8 3/4")		
• Þo	1/4" x 1/2"	(ca. 9 1/2")		
9:0	1/4" x 1/2"	(ca. 11 3/4")		
9: 0	#8-32 x 1/2"	(ca. 12 1/2")		Screw should be loose and head should touch
9:	1/4" x 1/2"	(ca. 13")		sumg, producing a loud buzz
9:	1/4" x 1/2"	(ca. 11 1/2")		

(cont. on following page)

* See comments on following page

Table of Piano Preparations—cont.

<u>Pitch</u>	Recommended <u>Screw Size</u>	Distance from <u>Damper</u>	Additional <u>Pitch Produced</u>	<u>Other</u>
): o	1/4" x 1/2"	(ca. 10")		
<u>9:</u> 0	1/4" x 1/2"	(ca. 7")		
9:	#8-32 x 1/2"	(ca. 3 3/4")		Screw should be loose and head should touch string, producing a loud buzz
9: o	#10-24 x 1/2"	(ca. 12")		Screw should be loose and head should touch string, producing a loud buzz
<u>9:</u> 	#10-24 x 1/2"	(ca. 11 1/2")		Screw should be loose and head should touch string, producing a loud buzz

Measurement units in parentheses indicate that the measurement does not need to be precise, and that the screw should be placed roughly 1/2 the distance between the damper and the wood. Specific additional pitches are not specified for these strings, although additional pitches will automatically be produced.

All strings indicated above must be prepared by placing metal machine screws between strings 2 and 3 (the center and right strings), or, in the case of lower pitches with only two strings, between 1 and 2.

Unless indicated otherwise, screws should be as tight as possible between the strings so as not to buzz, and the heads of the screws should not touch the strings.

Special care must be taken to assure that the *Una Corda* pedal mechanism is functioning properly. When the *Una Corda* pedal is pressed down, only strings 2 and 3 should be struck by the hammer, resulting in both a change in timbre and the absence of the normal pitches produced by the strings (i.e. only the additional pitches should sound). NOTE: Most *Una Corda* mechanisms are out of adjustment, causing the hammers to strike all three strings when the pedal is depressed. It is crucial that this be rectified in order for the correct timbres and pitches to be produced.