



ZV



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E C H O I C

(2010)

FOR VIOLIN, GAMELAN AND
LIVE ELECTRONICS

50699315

Gamelan Instrument Distribution for Echoic

Performer 1



Gong
Kempul
(Slendro
Pilog)
Bells set

Performer 2



Kenong
(Slendro + Pilog)
Gender
(Slendro + 2 Pilog)
2 Kedang Batangan

Operator



Performer 3



2 Kegang
Slenther
(Slendro + Pilog)
Peking
(Slendro + Pilog)

Performer 4



Bonang
(2 Pilog + Slendro)
Kedhang
Low Drum

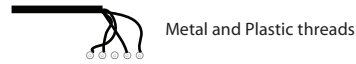
2 Sifers

Mallet Distribution Echoic

Performer 1



- Hard Mallets /
(B) Big
(M) Medium
(S) Small
- Medium Mallets /
(B) Big
(M) Medium
(S) Small
- Soft Mallets /
(B) Big
(M) Medium
(S) Small
- Y Brush / Rope with metal
- X Keys - Wood or Metal



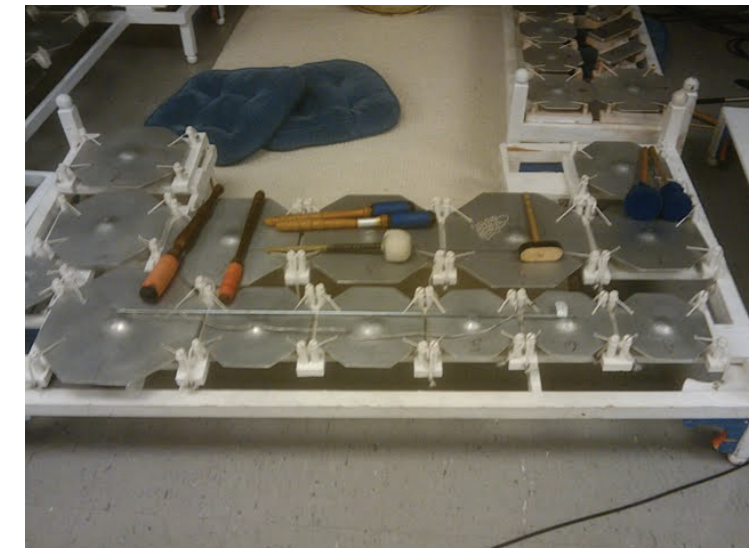
Performer 2



- Hard Mallets /
(B) Big
(M) Medium
(S) Small
- Medium Mallets /
(B) Big
(M) Medium
(S) Small
- Soft Mallets /
(B) Big
(M) Medium
(S) Small
- Y Brush / Rope with metal
- X Keys - Wood or Metal



Performer 4



- Hard Mallets /
(B) Big
(M) Medium
(S) Small
- Medium Mallets /
(B) Big
(M) Medium
(S) Small
- Soft Mallets /
(B) Big
(M) Medium
(S) Small
- Y Brush / Rope with metal
- X Keys - Wood or Metal



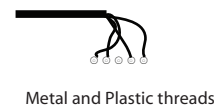
Chain



Performer 3



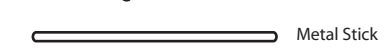
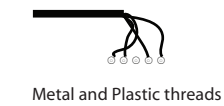
- Metal and Plastic sticks
- Hard Mallets /
(B) Big
(M) Medium
(S) Small
 - Medium Mallets /
(B) Big
(M) Medium
(S) Small
 - Soft Mallets /
(B) Big
(M) Medium
(S) Small
 - Y Brush / Rope with metal
 - X Keys - Wood or Metal

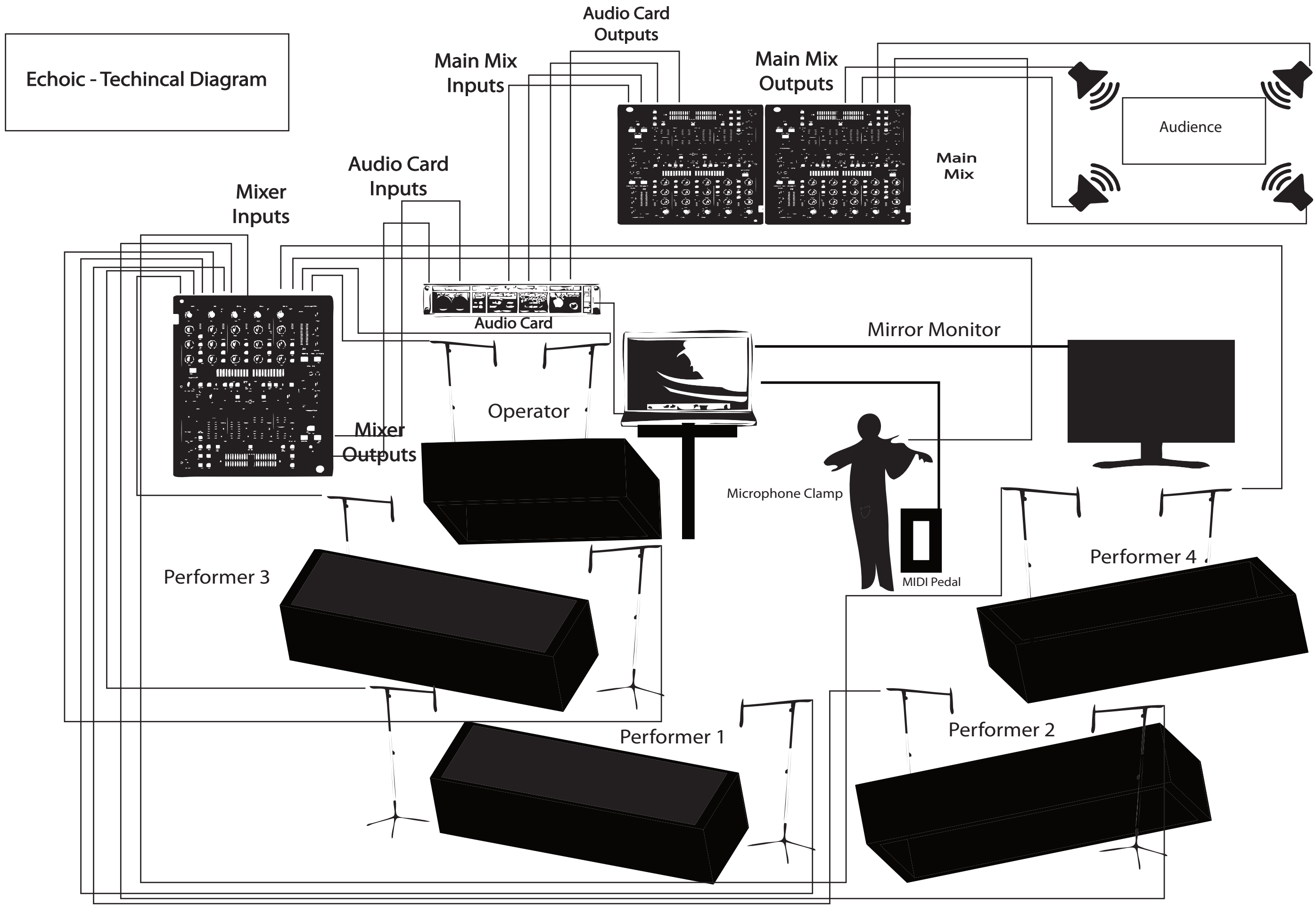


Operator



- Hard Mallets /
(B) Big
(M) Medium
(S) Small
- Medium Mallets /
(B) Big
(M) Medium
(S) Small
- Soft Mallets /
(B) Big
(M) Medium
(S) Small
- Y Brush / Rope with metal
- X Keys - Wood or Metal





ECHOIC

For Violin, Gamelan and Live Electronics

Edgar Barroso
Cambridge, MA 10/21/09

Violin $\text{♩} = 60$
0.0"

Elect.

Perf. 1
Perf. 2
Perf. 3
Perf. 4

Violin
7
33.0"

Elect.

Perf. 1
Perf. 2
Perf. 3
Perf. 4

Metal Tube
5
Gently and irregularly rub the long metal tube against Bonang Key number 5

ff **mf** **fp** **mf** **fp** **f** **mp** **fp** **mf** **p**

ff **ff** **ff** **ff**

f **mp** **f** **fff** **mf** **ppp** **f**

1 **2** **3** **5**

1 KEMPUL Slendro
2 GENDER Pelog
3 SLENTHER Slendro
2 BONANG Slendro
4

E string

Damp all the strings and randomly find a non-pithe/harmonic noise in the indicated string *
(active - gliss)
Sul. Pont

Ord. Sul. Pont Ord. Sul. Pont

l.v. l.v.

Simile. * (G-String)

Bridge / Perpendicular to bow, gradually play behind the bridge in the A string

(Light-Fast bow / Airy Noise Sound)

Bridge / Perpendicular to bow

5:4 5:4 3:2 5:4

5

ppp

2

Vln 12

(Expect Random / Irregular harmonics)

(active - gliss)

(Expect Random / Irregular harmonics)

Excessive Bow Pressure

Excessive Bow Pressure

5:4

3:2

p *f* *fp* *ppp* *mf* *ppp* *f* *mp* *f* *p*

E.

P 1

P. 2

P. 3

P. 4

Vln 17

1'07.0"

3:2

BRIDGE Bow angle

Bow angle

Bow angle

Behind the Bridge - D-string with very soft bow look for a noisy sound and stay there. 8 Sec.

fp *mp*

Bow / Siter

CUE / Perf 4

4

5

Very steadily and gently start rubbing the skin of the drum in a circular manner integrating with the noise coming from the violin.

12 Sec.

low Drum

mp

23 10 SEC. 10 SEC. CUE

Vln

E. CUE Operator / Siter 5:1 10 SEC. CUE Operator / Siter 5:2 10 SEC.

P 1 Gong With a sudden movement, using a coin, rub the surface of the Gong. Damp immediately after. Let the electronic ring. *ff*

P 2 Gender (Pelog) As fast and violent as you can, gliss the Slenther Pielog from low to high with a hard mallet and damp it immediately after the gesture. *ff*

P 3 Slenther (Slendro) As fast and violent as you can, gliss the Saron Slendro from high to to low with a hard mallet and damp it immediately after the gesture. *ff*

P 4 Low Drum With a hard mallet, hit the Low Kegang. *ff*

6 GONG Rub the surface of the Gong with a Hard Brush in a circular manner, increase speed when louder. *mf* *ff*

7 KEDHANG Rub the surface of the Kedhang with a coin in a circular manner, increase speed when louder. *fff*

8 KEDHANG Rub the surface of the Kedhang with a coin in a circular manner, increase speed when louder. *fff*

KEDHANG Rub the surface of the Low Drum with a coin in a circular manner, increase speed when louder. *fff*

6 SEC. 6 SEC. 6 SEC. 6 SEC. 6 SEC. 6 SEC.

2'03.0" 3:2 3

32 CUE 2'11.0" 2'15.0" 2'19.0" 2'23.0" CUE 8 SEC. 12 SEC.

Vln *mf* *ff* *ff* (simile) *ff*

E. CUE - Operator Gently and slowly rub the wood Keys against each other, following the motion of the drawings and imitating the other performers, it should sound like a rhythmic "unison" *pp*

9 Metal Keys Gently and slowly rub to metal keys against each other in a vertical manner. *mf* *f*

10 Wood Keys Violently and fast rub the metal keys against each other, three times following the motion of the drawings and imitating the violin gestures. *pp*

P 1 Metal Keys *mf* *f*

P 2 Metal Keys *mf* *f*

P 3 Metal Keys *mf* *f*

P 4 Metal Keys *mf* *f*

8 SEC. 8 SEC. 8 SEC. 8 SEC. 8 SEC. 8 SEC.

12 SEC. 12 SEC. 12 SEC. 12 SEC. 12 SEC. 12 SEC.

Vln 41 8 SECONDS 8 SECONDS

E. CUE operator Rub Sitters with Bow CUE operator Rub Sitters with Bow CUE *p*

P. 1 8 SECONDS

P. 2 8 SECONDS

P. 3 8 SECONDS

P. 4 8 SECONDS

11 12 SECONDS

1 SLENDRO 6 SECONDS

2 SLENDRO 6 SECONDS

5 SLENDRO 6 SECONDS

5 SLENDRO 6 SECONDS

mf

mf

mf

mf

mf

KEMPUL Rope Beaters (metal)

GENDER Rope Beaters (metal)

SLENTHER High Pelog

Tremolo with eight fingers

Kedhang 1 - 2

Vln 47 8 SECONDS 4 SECONDS CUE

Collegno Bat. / harm. / Ricoche / sul Pnt. pizz. Bartok arco

mf f f fp f

3'39.5" (active - gliss)

3'47.5" gliss.

sul pont.

5:4 5:4

P. 1 8 SECONDS 4 SECONDS KEMPUL (Slendro)

P. 2 8 SECONDS 4 SECONDS GENDER (Slendro)

P. 3 8 SECONDS 4 SECONDS SLENTHER (Pelog)

P. 4 8 SECONDS 4 SECONDS BONANG (Pelog)

12 13 14

6 3 1

1 2 5 4 6

mf f f f

Wood keys f

Wood keys pp

f pp

Vln 58

3'51.5"

mf

5:4

Sul Pont. 5:4

active gliss

ord.

7:4

Sul Pont.

ord. 5:4

5:4

Sul Pont.

CUE

5:4

CUE

3:2

5

fp

sfz

ff

E.

P 1

15

P. 2 KENONG Pelog

P. 3 SLENTHERN Pelog

Listen to the violin / Create a dialogue with the violin. Try to anticipate or react to his gestures. You should play the seventh notes/bichords given during this period of time.

P. 4 Slendro

mf

3

5

1

6

5

2

6

1

mf

Slendro

1

2

3

4

3:2

2

2

2

1

2

3

4

3:2

5

5

5

1

2

3

4

3:2

6

6

6

f

f

f

Vln 63

CUE

subito

ord.

f

CUE

f

CUE

ff

subito

mf

ord.

5:4

active gliss

ord.

7:4

Sul Pont.

5:4

CUE

active gliss

ord.

3:2

Sul Pont.

l.v.

E.

GONG

KEMPUL

P 1

l.v.

Slendro

16

17

PPP

GENDER

Pelag

P. 2

KENONG

Pelag

7

6

4

1

2

Slendro

mf

5

1

5

mf

P. 3

SLENTHER (Pelag)

7

4

P. 4

BONANG (Slendro)

1

6

f

f

Listen to the violin / Create a dialogue with the violin. Try to anticipate or react to his gestures. You should play the seventh notes/bichords given during this period of time.

6 4'33.0" pizz. **CUE** arco. flautado harm. gliss 3:2 poco a poco rallentando 4'41.0" 4'46.5" A tempo / ord. **f**

Vln 68 *mp sfz pp*

E. **BELLS** **18** **CUE**

P. 1 Blue Hammer *pp* **7** l. v.

P. 2 Blue Hammer GENDER (Pelog) 4 Seconds *pp* **2** l. v.

P. 3 Blue Hammer SLENTHER (Slendro) 4 Seconds *pp* **6** l. v.

P. 4 Wood Brush KEDHANG *pp* **1**

P. 1 KEMPUL (Slendro) **19** **2** L.V.

P. 2 GENDER (Pelog) *p* sempre / Gentle attack

P. 3 PEKING (Slendro) *p* sempre / Gentle attack

P. 4 BONANG (Pelog) *p* sempre / Gentle attack **7** L.V. **3** L.V.

4'54.5" Sul. Pont 73 (tr) *mf p sfz sfz pp mp f p mf* ord. l.v. 5'02.5" Sul. Pont 5'06.5" ord. 3:2

Vln *mf p sfz sfz pp mp f p mf*

E. **20**

P. 1 **1** L.V. **5** L.V. **3** L.V. **1** L.V. **5** L.V. **2** L.V. **6** L.V.

P. 2 **7** L.V. **2** L.V. **5** L.V. **3** L.V. **2** L.V. **1** L.V. **7** L.V.

P. 3 **6** L.V. **1** L.V. **2** L.V. **3** L.V. **6** L.V. **1** L.V. **5** L.V.

P. 4 **1** L.V. **5** L.V. **4** L.V. **6** L.V. **5** L.V. **4** L.V. **1** L.V.

8

CUE

ord. gradually Sul. Pont

88

pp *ff*

Extremely subito

ord.

keep tension

sfz

Extremely subito

ord.

keep tension

sfz

CUE

Sul. Pont

3:2

Extremely subito

CUE

Behind the bridge

Pizz

3:2

mf *f* *pp* *mf* *pp*

Vln.

E.

P. 1

P. 2

P. 3

P. 4

25

26

27

SITER

GONG 1

GONG 1

93

Ricochet

Gradually

Col legno battuto

CUE

BRIDGE

p *mf* *mf* *mf*

SITER

7

p *f*

CUE

Ord.

ppp

CUE

(Expect Random/Irregular harmonics)

p *mf* *p*

Vln.

E.

P. 1

P. 2

P. 3

P. 4

28

29

30

GONG 1

GONG 1

L. V.

KEHDANG

PEKING (Pelog)

Highest register possible

ppp

7

L. V.

4

KEDHANG

ppp

Tremolo with four fingers

Tremolo with four fingers

p *mf* *p*

p *mf* *p*

98

Vln

ord. 5:4 Flautado (harmonics & noise) CUE

f *p* *mf* *p* *f* *pp* *ff*

noisy

PIZZ

arco

flautado harm. gliss 3:2 5:4

poco a poco rallentando

harmonic to ordinario

E.

31 32 33

P 1

5 *f*

Rub the the surface of the kedang with finger nails in a circular manner

P. 2

P. 3

BLENTHERN Pelog Metal Stick *p* *mf* *p*

7 Lowest *mf*

Rub the stick against the lowest number 7 note

Rub the the surface of the kedang with finger nails in a circular manner

BONANG Slendro Metal Stick *mf* 5 Lowest

Rub the stick against the lowest number 5 note

P. 4

p *mf* *p* *mf*

103

Vln

l.v. *pp* subito *fff* *ff* subito *pp* *fff* CUE

3:2

4 SECONDS

4 SECONDS

CUE

7:4

ord.

Sul Pont.

ord.

l.v.

E.

34 35 36 37

Bells

KEMPUL (Pelog) Damp the key and play it as staccato as possible

P 1

Highest Note possible GENDER (Pelog) *mf*

P. 2

Highest Note possible SLENTHER (Slendro) *f*

P. 3

Highest Note possible BONANG (Slendro) *f*

P. 4

f

10

Vln *mf* *f* *ff* *pp subito* *f subito*

SITER

E. *ff*

P. 1 *ff*

P. 2

P. 3

P. 4

4 Seconds

7:4

10 SECONDS

Wait until the sound is almost completely fade out

CUE

espress.

3:2 - 8'04.3"

38

39

40 *pp*

With a rope between the siter strings, gently pull back and forth to get a mix of noise and pitch.

2 METAL TUBE
KEMPUL - SLENDRO

6 METAL TUBE
GENDER - SLENDRO

5 METAL TUBE
SLENTHER - SLENDRO

7 METAL TUBE
BONANG - SLENDRO

Vln *mp* *ppp* (audible) *pp* *mp* *mf* *f* *ff*

E. *pp*

Metal Stick

P. 1 *pp*

P. 2 *pp*

P. 3 *pp*

P. 4 *pp*

8'08.3" Bridge

8'12.3"

10 SECONDS

(Wait until you have total silence)

Damp all the strings as high as you can / Play the A string

8'16.3"

CUE

3:2

5:4

8'20.3"

Sul. Pont.

8'24.3"

3:2

41

42

43

56

4

7

2

3

2

7

KEMPUL - Slendro L.V.

KENONG - Pelog *pp*

SLENTHER - Slendro *pp*

BONANG - PELOG *pp*

Gradually

Ord.

121 Vln

Forceful Gliss+Trill 3:2

ff sfz

Total Silence 6 SECONDS

CUE

Sul. Pont

Active harmonic Gliss.

a la punta 8'40.3"

Motionless 8'44.8"

8 SECONDS

mf f

P subito

44 KEMPUL - Slendro

45

46

47 KEMPUL (Slendro)

GENDER (Slendro)

PEKING (Slendro)

BONANG (Slendro)

E.

P. 1

P. 2

P. 3

P. 4

126 Vln

hold "breath" subito 8'53.3"

Play as if you were stuck in these notes (relentless)

f sempre

8'57.3"

3:2

5:4

3:2

9'01.3"

5:4

48

WOOD KEYS

49

GENDER

METAL KEYS

L..V.

mf

mf

mf

mf

mf

mf

mf

E.

P. 1

P. 2

P. 3

P. 4

12

Vln 130

9'05.3" Sul Pont. *pp* *ff* 9'10.3" Subito *pp* *f* 9'14.8" Approx. *mp* *f* *mf* Ricochet 9'19.3" Approx. *mp* *mf* Ricochet 9'23.3" *p* *mf*

As far as possible but very quiet / improvise using the following playing techniques
Collegno Batt / Harmonics / Ricochet / Tremolo / Sul. Pont / GLiss

50 51 52 6 1

SITER BOW

KEMPUL PLASTIC RINGS

GENDER PLASTIC RINGS

METAL KEYS

KEDHANG

p *sempre*

p *sempre*

p *sempre*

p *sempre*

p *sempre*

p *sempre*

Combine two motions

Molto Rallentando
Less Density

137

p *sempre*

53

Behind the Bridge 9'52.3" *mf*

On the Bridge *mp*

KEMPUL METAL TUBE

KENONG METAL TUBE

SLENTHERN METAL TUBE

BONANG METAL TUBE

p *sempre*

p *sempre*

p *sempre*

p *sempre*

p *sempre*

p *sempre*

p *sempre*