Installation Instructions

1. Unpack ground fixing legs 3no.

2. Lay packaging out on floor or assemble on non-abrasive surface to prevent marking of polished stainless steel.

3. Align holes on legs (opposite end to polished domes) and secure in place using 3no. M10 x 200mm threaded bar and 6no. M10 nuts provided. Tools required 2no. 17mm metric spanner/wrench (11/16 inch or alternatively using adjustable wrench).

4. Invert assembled frame so domed ends face upwards.

5. Place 8mm Hex Key supplied into hole in leg and lock into internal bolt.

6. Remove Black caps opposite side of leg and keeping Hex Key in place, slide black polyurethane damper over bolt until flush with end of bolt. Repeat for other 2 legs.

7. Unpack babel drum leaving black film in place to protect.

8. Align holes in side of babel drum with bolts on legs.

9. Using 8mm Hex Key screw bolts into drum to secure in place. Use thread locking solution. All hole locations are laser cut for accuracy to ensure holes in drum align perfectly with legs.

10. Using TX40 driver provided secure M8 x 25mm security bolts into external holes in legs 3no. Use thread lock solution.

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Instrument Components:

- M10x200 Threaded bar
- M10 BZP Nut

Ground Fix Components:

- x3 M8x25mm Pin Torx

Weight of heaviest part 17.5kg (Large Babel Drum)
Weight of heaviest part 13.4kg (Small Babel Drum)

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Ground Fix

Babel Drum
Page 1 of 3

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Spares available from percussionplay.com or from your local distributor

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CAUTION: Drum surface can get hot in direct sunlight, if possible install in shaded areas.

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Heights:

KS1 – (L)700-(S)705mm
KS2 – (L)850-(S)855mm
Adult – (L)980-(S)985mm

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Ground Surface

- Adult 400mm
- KS2 530mm
- KS1 680mm

Large 8 note
Small 6 note

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22 Kg
13.4 Kg

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BS EN 1176
Assembly Guide PPBDL-S

Ground Fixed
Babel Drum
Page 2 of 3

Instrument Components:
- M10x200 Threaded bar x3
- M10 BZP Nut x6

Ground Fix
- 22 Kg
- 13.4 Kg

Components:
- BS EN 1176 M8x25mm Pin Torx x3

Thread Lock Solution Required

Tools:
- Hex T Key x1
- TX 40 Driver Bit x1

Spares available from percussionplay.com or from your local distributor

Played with hands

Thread Lock Solution Required

M10x200 Threaded bar
M10 BZP Nut
1. Insert M10x 200 Threaded bar into pre drilled holes in Frame of Babel Drum using M10 BZP Nuts

2. Excavate a hole with a 250mm diameter tapering down to 350mm diameter and 450mm depth

3. Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete)

4. Fill hole with fast drying concrete to manufacturers specifications.

If Drum needs to be positioned lower a deeper hole can be excavated.

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

Components:

- M10x200 Threaded Bar x3
- M10 BZP Nut x6

Metric Conversion:

- 50mm/2"
- 250mm/10"
- 350mm/14"
- 400mm/16"
- 450mm/18"
Installation Instructions

1. Handpipes will arrive on site assembled, Ground Fixings will need to be installed (1.1) (See Assembly Guide)

2. Attach Ground Fixing posts to legs (See Ground Fix Post Installation Sheet)

3. Excavate 2 holes for the Steel legs 250mm diameter by 400mm deep in desired location upon decision from customer.

4. Locate (lower) legs into holes making sure they are vertical and level prior to concreting in place.

5. Once happy with location of the Instrument, fill holes using rapid hardening concrete. Be sure to compact concrete around legs and leave to dry according to manufactures guidelines.

Instrument Components:

- M10x200 Bolt x4
- M10 Nut x8
- M10x60 Security Screw x2
- M10 Barrel Nut x2

Spares available from percussionplay.com or from your local distributor

Ground Fix Components:

Playing with hands

Weight of heaviest part 20kg (Handpipes)

Metric Conversion:

- 250mm/10"
- 400mm/16"
- 905mm/35"
- 1.5m/59"

Spares available from percussionplay.com or from your local distributor

25 Kg
COMPONENTS LIST:

- M10x60mm Security Screw X2
- M10 Barrel Nut X2
- M10 Nut X8
- M10x200 Threaded Bar X4
- M10x60mm Security Screw X2
- M10 Barrel Nut X2

Ground Fixed

Instrument Components:

M10 Nut X8
M10x200 Threaded Bar X4
M10x60mm Security Screw X2
M10 Barrel Nut X2

Spares available from percussionplay.com or from your local distributor.

Thread Lock Solution Required (Not Supplied)

Played with hands.
Insert M10x 200 Threaded bar into pre drilled holes in Ground Fixing Post. Fix M10x 200 Threaded bar in place using M10 Nuts. Locate the Ground fix Post into the leg of the instrument. Fix instrument to Ground fix post using M10 bolt and Barrel Nut and use thread locking solution to prevent fixings working loose.

Excavate 6 holes with a 250mm diameter tapering down to 350mm diameter and 450mm depth. Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete). Fill hole with fast drying concrete to manufacturers specifications.

Ground Fixed Components:
- M10x200 Bolt x4
- M10 Nut x8
- M10 Barrel Nut x2
- M10x60 Security Screw x2

Tools:
- TX 45 Driver Bit x2

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

Metric Conversion:
- 50mm / 2"
- 250mm / 10"
- 350mm / 14"
- 400mm / 16"
- 450mm / 18"

Repeat points 1-7. Handpipes requires 2 Ground Fix Posts.
Installation Instructions

1. Using M10 nuts and 150mm bolts supplied locate through pre drilled holes and secure bolts in place to support in ground pole in concrete. 2 bolts per leg at 90 degree angles.

2. Excavate 7 holes for Tubular Bells 250mm diameter by 600mm deep. 2 further holes will be needed for the beater poles according to layout of Bells at 250mm diameter and 400mm deep.

3. Locate (lower) legs into holes making sure they are vertical and level prior to concreting in place.

4. Once happy with location of the Tubular Bells, fill holes using rapid hardening concrete. Be sure to compact concrete around legs and leave to dry according to manufactures guidelines.

Ground Fix Components:
- M10x150 Bolt x14
- M10 Nut x28

Weight of heaviest part: 10kg (XXL Bell)

Instrument Components:
- Tubular Bells are pre-assembled
- Pair Large Red Beaters X1

Spares available from percussionplay.com or from your local distributor.

In ground fixing always 600mm for each chime and 400mm for beater poles.

Install Instrument with 1.5m free space (from widest point) around it.

2207mm/ 98"

Metric Conversion:
- 250mm/ 10"
- 400mm/ 16"
- 600mm/ 24"
- 1.5m/ 59"
- 2207mm/ 98"
Ground Fix Post Installation

1. Insert M10x 150 Threaded bar into pre drilled holes in Ground Fixing Post
2. Fix M10x 150 Threaded bar in place using M10 Nuts
3. Excavate 7 holes with a 250mm diameter tapering down to 350mm diameter and 650mm depth

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surfacsee Part 7 of BS EN 1176.

Components:
- M10x200 Threaded Bar x14
- M10 BZP Nut x28

Metric Conversion:
- 50mm/2"
- 250mm/10"
- 350mm/14"
- 400mm/16"
- 450mm/18"
- 600mm/24"
- 650mm/26"

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surfaces see Part 7 of BS EN 1176.

4. Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete)
5. Fix hole with fast drying concrete to manufacturers specifications.

600mm max depth 7x Tubular Bells
400mm max depth 2X Beater Poles
Installation Instructions

1. Unpack frame 3no.

2. Lay packaging out on floor or assemble on non-abrasive surface to prevent marking of polished stainless steel.

3. Align holes on legs (opposite end to polished domes) and secure in place using 3no. M10 x 200mm threaded bar and 6no. M10 nuts provided. Tools required 2no. 17mm metric spanner/wrench (11/16 inch or alternatively using adjustable wrench).

4. Invert assembled frame so domed ends face upwards.

5. Insert M8x60mm Security screws into pre drilled holes in frame using TX40 bit.

6. Attach Notes to Harmony Frame. (See Assembly Guide Sheet)

3. Excavate 1 hole for the Steel leg 250mm diameter by minimum 400mm deep, in desired location upon decision from customer.

8. Locate (lower) legs into hole making sure they are vertical and level prior to concreting in place.

5. Once happy with location of the Instrument, fill hole using rapid hardening concrete. Be sure to compact concrete around legs and leave to dry according to manufactures guidelines.

1.5m

CAUTION: Harmony surface can get hot in direct sunlight, if possible install in shaded areas.

1.5m

Ground Fixed

Flat Pack Harmony

Page 1 of 3

Ground Fix Components:

- M10x200 Bolt x3
- M10 Nut x6
- M8x60 Security Screw x2

Pair Small Red Beaters X1

Weight of heaviest part 16kg (Harmony Frame)

Can be installed deeper if required

20 Kg

Spares available from percussionplay.com or from your local distributor

BS EN 1176

Metric Conversion:
250mm/10"
400mm/ 16"
1385mm/ 55"
1.5m/ 59"

Install Instrument with 1.5m free space (from widest point) around it.
**COMPONENTS LIST:**

- M10 Nut X6
- M10x200 Threaded Bar X3
- Saddle Strap X3
- M6x20 Pin torx X6
- M8x60 Pin torx X2

**Ground Fixed**

Instrument Components:

- M6x20 Security Screw x6
- M6 Saddle Strap x3

**Tools:**

- TX 30 Driver Bit x1
- TX 40 Driver Bit x1

**Components:**

- 20 Kg Pair Small Red Beaters X1

**Assembly Guide PPHARM**

**CAUTION:** Harmony surface can get hot in direct sunlight, if possible install in shaded areas.

Spares available from percussionplay.com or from your local distributor.
Excavate a hole with a 250mm diameter tapering down to 350mm diameter and 450mm depth.

Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete).

Fill hole with fast drying concrete to manufacturers specifications.

If Harmony needs to be positioned lower a deeper hole can be excavated.

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surfaces see Part 7 of BS EN 1176.
**Installation Instructions**

1. Attach Ground Fixing posts to legs (1,2) (See Ground Fix Post Installation Sheet)

2. Excavate 1 hole for the Steel leg 250mm diameter by 600mm deep, in desired location upon decision from customer.

3. Locate (lower) legs into hole making sure they are vertical and level prior to concreting in place.

4. Once happy with location of the Instrument, fill hole using rapid hardening concrete. Be sure to compact concrete around legs and leave to dry according to manufactures guidelines.

**Ground Fixed**

Bell Lyre

Page 1 of 2

**Instrument Components:**

- M6x20 Security Screw x4
- M6 Saddle Strap x2
- M6 Barrel Nut

**Ground Fix Components:**

- M10x200 Bolt x1
- M10 Nut x4
- M10x70 Security Screw x1
- M10 Barrel Nut

**Weight of heaviest part 14.4kg (Bell Lyre)**

**Metric Conversion:**

- 250mm/ 10”
- 600mm/ 24”
- 1.5m/ 59”
- 1525mm/ 60”

**CAUTION:** Bell Lyre surface can get hot in direct sunlight, if possible install in shaded areas.

Spares available from percussionplay.com or from your local distributor

23.5 Kg
Ground Fix Post Installation

1. Insert M10x 200 Threaded bar into pre drilled holes in Ground Fixing Post.

2. Fix M10x 200 Threaded bar in place using M10 Nuts.

3. Locate the Ground fix Post into the leg of the instrument.

4. Fix instrument to Ground fix post using M10 bolt and Barrel Nut and use thread locking solution to prevent fixings working loose.

5. Excavate 1 hole with a 250mm diameter tapering down to 350mm diameter and 650mm depth.

6. Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete).

7. Fix hole with fast drying concrete to manufacturers specifications.

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**Tools:**
- TX45 Driver Bit
- Thread Lock Solution Required (Not Supplied)

**Components:**
- M10x200 Threaded Bar x2
- M10 BZP Nut x4
- M10 Barrel Nut x1
- M10x70 Security Screw x1

**Metric Conversion:**
- 50mm/2"
- 100mm/4"
- 250mm/10"
- 350mm/14"
- 600mm/24"
- 650mm/26"

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Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

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**BS EN 1176**

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