Standard BQ-P6 Binder Padder and Spine Taper

Instruction Manual

Provided By MyBinding.com
Important Information

- This manual is designed to help you to install, operate and maintain Book Binder BQ-P6. Read, understand and keep this manual in a safe and convenient place.

- Do not operate BQ-P6 until you read and understand the instructions in this manual.

- Horizon International Inc. shall not be liable for incidental consequential damages resulting from: improper or inadequate maintenance by customer; unauthorized modification or misuse; operation outside of the environmental specifications for the product.

- Horizon International Inc. pursues a policy of continuing improvement in design and performance of the product. Therefore, the product design and specifications are subject to change without prior notice and without our legal obligation.

- All rights are reserved. No part of the manual may be photocopied, reproduced or translated to another language without the prior written consent of Horizon International Inc.
**Safety Precautions**

- The signal word WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

- The signal word CAUTION indicates a potentially hazardous situation which, if not avoided, may result in damage on machines. It may also be used to alert against unsafe practices.

- Read and understand all safety instructions with signal word such as WARNING and CAUTION. If safety instructions are ignored, personal injury may result.

- Horizon International Inc. cannot anticipate every possible situation that might involve a potential hazard. The instructions in this manual and warning labels on the machine are therefore not all inclusive.

- All equipment shall be locked out or tagged out to protect against accidental or inadvertent operation when such operation could cause injury to personnel. Do not attempt to operate any switch, valve, or other energy isolating device where it is locked or tagged out.

- Do not operate the machines when any covers are removed.

- Some of the drawings in this manual show the machine uncovered for explaining the detail or inside of machine.
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1. Before Starting Operation
1. Before Starting Operation

1-1 Installation Precautions

1. Place BQ-P6 in a flat space.
   - Avoid places where table and foundation are unstable.

2. Keep BQ-P6 away from direct sun light.
   - Keep BQ-P6 away from high temperature and humidity.

3. Keep BQ-P6 away from lots of dust.

4. Keep BQ-P6 away from magnetic or magnetized apparatus.

5. Do not put many loads on one electrical outlet.
1-2 Operating Precautions

1. Do not touch melted glue or melt tank with your finger or hand.
   - Melted glue and melt tank are so hot that they cause severe skin burn.

2. Do not supply too much glue in melt tank.

3. Turn off power switch for preserving glue quality, when BQ-P6 is not used.
   - Deterioration pace of glue is proportional to time length during glue is melted.

4. Absolutely do not open any covers and disassemble or modify the BQ-P6.

5. Do not let fall down something small into the machine.

6. Do not use organic solvent thinner or benzine.
1. Before Starting Operation

1-3 Back Finish Quality

Most important thing for good and strong binding is spine-alignment of stock. To apply glue on spine equally, all sheet must touch the level plate. Make sure stock to be bound gets trued up and aligned enough.

Thickness (Weight) of paper which can be used for cover is from 100 to 160 gsm.

Keep the clamper and the nipper clean. Otherwise the binding quality may be affected by dusts or pieces of glue on the level plate and the nipper.

Do not open bound book within five minutes.
2. Machine Parts Description
2. Machine Parts Description

2-1 Main Body

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Clamper</td>
<td>This clamps sheets to be bound and carries to the melt tank.</td>
</tr>
<tr>
<td>2 Clamper Knob</td>
<td>Used to open and close the clamper.</td>
</tr>
<tr>
<td>3 Cover Gauge</td>
<td>Used to regulate cover position.</td>
</tr>
<tr>
<td>4 Safety Guard</td>
<td>When this safety guard is raised, the clamper movement stops immediately.</td>
</tr>
<tr>
<td>5 Nipper</td>
<td>This nips cover and sheets to form spine.</td>
</tr>
<tr>
<td>6 Melt Tank Cover</td>
<td>This covers melt tank unit which is extremely hot. Keep hands off from melt tank and glue application rollers when the cover is opened.</td>
</tr>
<tr>
<td>7 Main Switch</td>
<td>Used to turn ON / OFF main power.</td>
</tr>
</tbody>
</table>
2. Major Parts Description and Functions

2-2 Operation Panel

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Binding Mode Select Button</td>
<td>Two types of binding can be selected. One is binding with cover or tape (cover/tape mode), another is pad binding.</td>
</tr>
<tr>
<td>② Cover/Tape Mode Lamp</td>
<td>This lamp turns on when cover/tape binding mode is selected.</td>
</tr>
<tr>
<td>③ Padding Mode Lamp</td>
<td>This lamp turns on when pad binding mode is selected.</td>
</tr>
<tr>
<td>④ Operation Lamp</td>
<td>This lamp turns on when the clamper moves forward/backward, or the nipper moves up/down.</td>
</tr>
<tr>
<td>⑤ Preparation Lamp</td>
<td>This lamp turns on when glue is not melted for binding. Alarm will let you know when glue is ready.</td>
</tr>
<tr>
<td>⑥ Procedure Lamp for stock placing</td>
<td>This lamp turns on when stock can be placed in the clamper.</td>
</tr>
<tr>
<td>⑦ Procedure Lamp for cover placing</td>
<td>This lamp turns on when cover can be placed.</td>
</tr>
<tr>
<td>⑧ Procedure Lamp for book taking out</td>
<td>This lamp turns on when book can be taken out from the clamper.</td>
</tr>
<tr>
<td>⑨ Reset Button</td>
<td>(1) Used to bring back the nipper to home position after binding.</td>
</tr>
<tr>
<td></td>
<td>(2) Used to bring back clamper when stop button is depressed during binding process. (Firstly take out sheets from clamper, secondly depress reset button twice to bring back clamper.)</td>
</tr>
<tr>
<td>⑩ Stop Button</td>
<td>Used to stop binding procedure.</td>
</tr>
<tr>
<td>⑪ Start Button</td>
<td>Used to start binding.</td>
</tr>
</tbody>
</table>
3. How To Use BQ-P6
3. How to use BQ-P6

3-1 Operation Procedure (Cover-Binding)

NOTE:
Operation procedure is guided on operation panel. Lamps will tell you binding procedure step by step.

1. Plug the power cord to outlet.
2. Turn on main power.
   - Turn on the main switch.
   
   NOTE:
   Warming up time for glue is 13 minutes. Alarm will tell you when glue will be ready.

3. Select cover/tape binding mode.
   - Depress the binding mode select button to select cover/tape binding mode.

   NOTE:
   Depress the reset button when cover/tape binding mode can not be selected.

4. Place stock.
   - True up sheets at spine.
   - Set left hand side edge of stock against left side of the clamper.

   NOTE:
   - Maximum binding thickness is 25 mm.

   - When binding bigger than A4 size (landscape) to prevent bending over clamper, support boards for clamper should be attached.

   Place the support boards outside of the clamp guides (both front and rear side).
   The magnet attached on support boards will stick on clamp guides.
5. **Clamp sheets.**
   - Turn the clamper knob clockwise to clamp sheets.

6. **Start.**
   - Depress the start button. The clamper moves backward and the glue will be applied on sheets spine.

7. **Pull out fully the cover gauge.**
3. How to use BQ-P6

8. Place cover.
- Place cover on the nipper.
- Align the center of cover to arrow mark.
- Depress the cover set guide at indicated point and raise two fixing nails.
- Insert the cover and fix.

9. Align the cover gauge to cover.
- Set the cover gauge so that it slightly touches the edge of cover.

10. Restart the clamper.
- Depress the start button again.
- The clamper moves forward to its home position.
- Sheets applied glue at spine are nipped with cover for several seconds.

- Turn the clamper knob counterclockwise to open the clamper when alarm rings.
- Slide out book to right hand side.
12. **Reset the level plate.**
- Depress the reset button to reset level plate for next binding. The level plate will be raised.

13. **Turn off power when your binding job finished.**
- Turn off the main switch.
- Detach the power cord from outlet.
3. How to use BQ-P6

3-2 Operation Procedure (Tape-Binding)

**NOTE:**
- Operation procedure is guided on operation panel. Lamps will tell you binding procedure step by step.
- Only Horizon original tape can be used on your BQ-P6.

1. Plug the power cord to outlet.

2. Turn on main power.
- Turn on the main switch.

**NOTE:**
Warming up time for glue is 13 minutes. Alarm will tell you when glue will be ready.

3. Select cover/tape binding mode.
- Depress the binding mode select button to select cover/tape binding mode.

**NOTE:**
Depress the reset button when cover/tape binding mode can not be selected.

4. Place stock.
- True up sheet at spine.
- Set left hand side edge of stock against left hand side of the clamper.

**NOTE:**
- Maximum binding thickness is 25 mm.
- When binding bigger than A4 size (landscape) to prevent bending over clamper, support boards for clamper should be attached.

Place the support boards outside of the clamp guides (both front and rear side). The magnet attached on support boards will stick on clamp guides.
5. Start.
- Depress the start button. The clamper moves backward and the glue will be applied on sheets spine.

6. Place tape.

**NOTE:**
*Use only Horizon original tape.*

- Peel off only center part of released paper on tape.
- Place the tape on middle of the nippers so that the left edge of tape align with the resister guide. The tape will fit into depression of nipper.
3. How to use BQ-P6

7. Restart the clamper.
   - Depress the start button again.
   - The clamper moves forward to its home position.
   - Sheets applied glue at spine are nipped with tape for several seconds.

8. Take out book.
   - Turn the clamper knob counterclockwise to open the clamper when alarm rings.
   - As the part of tape stuck bottom edge of clamper guides, push down book slightly to release book from the clamper guides and slide out book to right hand side.

   - Peel off released paper on both side of tape.
   - Stick tape to book.

10. Reset the level plate.
    - Depress the reset button to reset level plate for next binding. The level plate will be raised.
11. Turn off power when your binding job finished.
   - Turn off the main switch.
   - Detach the power cord from outlet.
3. How to use BQ-P6

3-3 Operation Procedure (Pad Binding)

**NOTE:**
Operation procedure is guided on operation panel. Lamps will tell you binding procedure step by step.

1. **Plug the power cord to outlet.**

2. **Turn on main power.**
   - Turn on the main switch.

   **NOTE:**
   Warming up time for glue is 13 minutes. Alarm will tell you when glue will be ready.

3. **Select pad binding mode.**
   - Depress the binding mode select button to select pad binding mode.

   **NOTE:**
   Depress the reset button when pad binding mode can not be selected.

4. **Place stock.**
   - True up sheets at spine.
   - Set left hand side edge of sheets against left side of the clamper.

   **NOTE:**
   - Maximum binding thickness is 25 mm.
   
   - When binding bigger than A4 size (landscape) to prevent bending over clamper, support boards for clamper should be attached.

Place the support boards outside of the clamp guides (both front and rear side). The magnet attached on support boards will stick on clamper guides.
5. **Start.**
- Depress the start button. The clamper moves backward and the glue will be applied on sheets spine.
- The clamper moves forward immediately.
- Glue is dried over the nipper for several seconds.

   **NOTE:**
   *Actually the clamper does not stop at its stroke end. Do not touch any moving part.*

6. **Take out stock.**
- Turn the clamper knob counterclockwise to open the clamper when alarm rings.
- Slide out stock to right hand side.

7. **Reset the level plate.**
- Depress the reset button to reset level plate for next binding. The level plate will be raised.
3. How to use BQ-P6

8. Turn off power when your binding job finished.
- Turn off the main switch.
- Detach the power cord from outlet.
4. Troubleshooting
4. Trouble Shooting

When BQ-P6 does not start or operate properly, refer to this trouble shooting to prevent easy mistake.

Considerable cause and countermeasure are pointed out below.

4-1 When BQ-P6 does not start.

**Cause 1:**
The reset button is not depressed.

**Countermeasure:**
Depress the reset button when no book is placed in the clamper.

**Cause 2:**
A stock is not placed.

**Countermeasure:**
Place a stock in the clamper.
4-2 When the level plate does not reset.

Cause:
A book is not taken out from the clamper.

Countermeasure:
Slide out book to right hand side and depress the reset button.

4-3 When the clamper moves forward before cover setting

Cause:
Pad binding mode is selected.

Countermeasure:
Select the cover/tape mode.
4. Trouble Shooting

4-4 Lamp Does Not Light when Power is Turned On / Lamp Lights Off Suddenly

Cause 1 :

Circuit protector trips.
(When the switch pops out, the circuit protector is tripped.)

Countermeasure :

Turn off the power switch and push in the switch. The circuit protector will be reset.

If the switch pops out again when the power is turned on, turn off the power switch and please call your local dealer.
5. Maintenance
5. Maintenance

5-1 Glue Supply

⚠️ WARNING

Do not touch the melt tank or the application roller. High temperature will cause severe personal injury.

When:
(1) After about 30 bindings from Max. glue level (supposed the sheet size is A4, thickness is 10 mm.).

(2) Top of fin in the melt tank will be appeared.

What:
Horizon original Glue HM-301L

**NOTE:**
Do not use another glue.

How:
Place approximately 30 pieces of glue into the melt tank.

- Turn off main power and wait 15 minutes.
- Open the melt tank cover.
- Place the glue into the melt tank piece by piece.
- Close the melt tank cover.

**Caution**
Do not apply glue more than Max. limit of glue level indication.
6. Specifications
6. Specifications

6-1 Specifications of BQ-P6

<table>
<thead>
<tr>
<th>Model:</th>
<th>BQ-P6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Book Size</td>
<td>Width (Spine to fore-edge): 222.5 mm (8.7&quot;), with cover</td>
</tr>
<tr>
<td></td>
<td>Thickness: 25 mm (1&quot;&quot;)  Spine Length: 315 mm (12.4&quot;&quot;)</td>
</tr>
<tr>
<td>Production Speed</td>
<td>Cover / Tape Binding Mode:</td>
</tr>
<tr>
<td></td>
<td>30 seconds / book (50 Hz)</td>
</tr>
<tr>
<td></td>
<td>27 seconds / book (60 Hz)</td>
</tr>
<tr>
<td></td>
<td>Pad Binding Mode:</td>
</tr>
<tr>
<td></td>
<td>36 seconds / book (50 Hz)</td>
</tr>
<tr>
<td></td>
<td>33 seconds / book (60 Hz)</td>
</tr>
<tr>
<td>Glue Type</td>
<td>Hot Melt (HM-301L)</td>
</tr>
<tr>
<td>Warming Up Time</td>
<td>13 minutes</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>115 V - 60 Hz 1050 W</td>
</tr>
<tr>
<td></td>
<td>230 V - 50 Hz 1050 W</td>
</tr>
<tr>
<td>Weight</td>
<td>32 kg (64.8 LB)</td>
</tr>
<tr>
<td>Machine Size</td>
<td>Width 560 mm (22&quot;)</td>
</tr>
<tr>
<td></td>
<td>Depth 460 mm (18&quot;)</td>
</tr>
<tr>
<td></td>
<td>Height 280 mm (11&quot;)</td>
</tr>
</tbody>
</table>

Book Size Indication

![Diagram showing book size indication with dimensions labeled: Width, Thickness, and Spine Length.](image-url)
6-2 Accessories

Support boards for clamp (2 pcs)

Ground Wire (1 pc) Size: 5 m

Sample Covers

<table>
<thead>
<tr>
<th>Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Blue, Snow, Yellow Green, Pearl Pink, Pearl Green</td>
</tr>
<tr>
<td>Ivory, White</td>
</tr>
</tbody>
</table>

Sample Covers

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<table>
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<td>Steel Blue, Snow, Yellow Green, Pearl Pink, Pearl Green</td>
</tr>
<tr>
<td>Ivory, White</td>
</tr>
</tbody>
</table>

Cloth Tapes for A4 Size

<table>
<thead>
<tr>
<th>Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark Blue, Red, Yellow, White, Sky Blue, Black</td>
</tr>
</tbody>
</table>

Glue (HM-301L, Hot-Melt type, 200 g)
6. Specifications

6-3 Consumables

<table>
<thead>
<tr>
<th>Hot Melt (HM-301L, 5 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number: M790005</td>
</tr>
<tr>
<td>200 g pack x 25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Covers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B5-S</strong></td>
</tr>
<tr>
<td>(100 sheets)</td>
</tr>
<tr>
<td><strong>Colors</strong></td>
</tr>
<tr>
<td>Steel Blue : 4716400</td>
</tr>
<tr>
<td>Snow : 4716401</td>
</tr>
<tr>
<td>Yellow Green : 4716402</td>
</tr>
<tr>
<td>Pearl Pink : 4716403</td>
</tr>
<tr>
<td>Pearl Green : 4716404</td>
</tr>
</tbody>
</table>

| **A4-S**               |
| (100 sheets)           |
| **Colors**             |
| Steel Blue : 4716420   |
| Snow : 4716421         |
| Yellow Green : 4716422 |
| Pearl Pink : 4716423   |
| Pearl Green : 4716424  |

| **Cover for Laser**    |
| **Printer A4-S**       |
| (100 sheets)           |
| **Colors**             |
| Ivory : 4706223        |
| White : 4706224        |
6. Specifications

6-3 Consumables

<table>
<thead>
<tr>
<th>Cloth Tapes</th>
<th>Colors</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5-40</td>
<td>Dark Blue: 4700168</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red: 4700182</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yellow: 4706206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White: 4700181</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sky Blue: 4700180</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Black: 4700189</td>
<td></td>
</tr>
<tr>
<td>A4-40</td>
<td>Dark Blue: 4700154</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red: 4700183</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yellow: 4700128</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White: 4700127</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sky Blue: 4706208</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Black: 4706209</td>
<td></td>
</tr>
</tbody>
</table>
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