This guide is a troubleshooting reference used for maintaining and servicing your BendPak product. It provides comprehensive information on identifying serviceable parts and components and assists in troubleshooting problems and performing assembly/disassembly procedures.
NOTE: UNLESS OTHERWISE SPECIFIED

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ALL LABELS TO BE APPLIED TO POSTS AFTER PAINTING.
3. SEE ATTACHED LABEL PLACEMENT SHEET

REV.

C
ADDED 5905103, 5905200, 5905402, 5905465, 5905940, AND 5930605, UPDATED BOM REVISIONS
08/13/2015

D
REPLACED 5906065 WITH 5905952
UPATED BOM REVISIONS
11/25/2015

E
REMOVED 5905952, ADDED 5905953, UPDATED BOM REVISIONS
01/08/2016

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ALL LABELS TO BE APPLIED TO POSTS AFTER PAINTING.
3. SEE ATTACHED LABEL PLACEMENT SHEET
NOTE: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE ITEMS AS SHOWN

ITEM NO | PART NUMBER | DESCRIPTION | QTY | REV
--- | --- | --- | --- | ---
1 | 5700031 | ZERO ANGLE MTG BRACKET | 1 | C
2 | 5590175 | PUSH BUTTON AIR VALVE | 1 | B
3 | 5530043 | SHCS M3 x 0.5 x 30 | 2 | -
4 | 5540024 | WASHER M3 x 9mm | 2 | -
5 | 5550020 | NUT M3 x 0.5 NL | 2 | -
6 | 5550087 | FTG ELB -04 COMP x -02 NPT | 1 | -
7 | 5550486 | FTG NPL -02 NPT x -04 F NPT | 1 | -

REVISION

<table>
<thead>
<tr>
<th>REV</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>EDITED BY/ECO#</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>REPLACED 5550481 WITH 5550087</td>
<td>10/29/2013</td>
<td>TM 00593</td>
</tr>
<tr>
<td>F</td>
<td>REPLACED 5590240 WITH 5590175, UPDATED NEXT ASSEMBLIES</td>
<td>05/05/2015</td>
<td>MR 00683</td>
</tr>
<tr>
<td>G</td>
<td>SWITCHED POSITIONS OF 5550087 AND 5550486, UPDATED NEXT ASSEMBLY</td>
<td>06/16/2016</td>
<td>TS 00765</td>
</tr>
</tbody>
</table>

TITLE: PUSH BUTTON AIR ASSEMBLY

DRAWN AC 3/14/2008
CHECKED CA 09/02/2015

DIMENSIONS ARE IN MM
THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.
<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5600901</td>
<td>HD-7500/9 SERIES CYLINDER FLANGE ARM WELDMENT</td>
<td>1</td>
<td>D</td>
</tr>
<tr>
<td>2</td>
<td>5715090</td>
<td>CYL. FLANGE ARM SLIDE</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>3</td>
<td>5530069</td>
<td>FHS M6 x 1.0 x 25</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>5535357</td>
<td>NUT M6 x 1.0 NL</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>5545005</td>
<td>M6 FLAT WASHER</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

**REVISIONS**

- **B**: UPDATED BOM REVISIONS, UPDATED NEXT ASSEMBLY
  - DATE: 11/14/2008
  - EDITED BY: AC
  - ECO#: 00174

- **C**: UPDATED BOM REVISION
  - DATE: 04/22/2010
  - EDITED BY: TM
  - ECO#: 00351

- **D**: UPDATED TITLE TO REFLECT WHERE USED, UPDATED BOM REVISIONS
  - DATE: 06/10/2010
  - EDITED BY: AC
  - ECO#: 00366

- **D-001**: UPDATED NEXT ASSEMBLY
  - DATE: 01/20/2011
  - EDITED BY: TM
  - ECO#: 00439

- **D-002**: UPDATED NEXT ASSEMBLY
  - DATE: 06/04/2011
  - EDITED BY: TM
  - ECO#: 00464

---

**NOTE:** UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN

ITEM | NO | PART NUMBER | DESCRIPTION | QTY | REV
--- | --- | --- | --- | --- | ---
1 | 5600200 | HD-7500BL/9/9ST/9SW POWER SIDE RAMP WELDMENT | 1 | F |
2 | 5502165 | CYLINDER ASSEMBLY Ø3.0 x 70 | 1 | H |
3 | 5215122 | HD-77/7500/9 SERIES SINGLE SHEAVE ROLLER ASSEMBLY | 2 | D |
4 | 5215123 | HD-77/7500/9 SERIES TWIN SHEAVE ASSEMBLY | 2 | D |
5 | 5600900 | HD-77/7500/9 SERIES RAMP SHEAVE SHAFT WELDMENT | 4 | D |
6 | 5530773 | SHCS M8 x 25x20mm L | 4 | - |
7 | 5215129 | HD-7500/9 CYLINDER FLANGE ARM ASSEMBLY | 1 | D |
8 | 5731309 | CABLE RETAINER PLATE | 1 | A |

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN

NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
NOTE: UNLESS OTHERWISE SPECIFIED
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN

1. HD-9/9XL/XW CROSSTUBE ASSEMBLY, LARGE WINDOW
2. HD/HDS-7/7500/9/14 SAFETY ROLLER
3. HD-7/7500/9 SERIES SINGLE SHEAVE ROLLER ASSEMBLY
4. HD/HDS LIGHT DUTY SERIES SLACK SAFETY WELDMENT
5. HD-7/7500/9 SERIES CROSSTUBE SHEAVE SHAFT WELDMENT
6. HD/HDS LIGHT DUTY SERIES SAFETY WELDMENT
7. HD-7/7500/9 SERIES SAFETY ROLLER
8. HD/HDS SERIES SAFETY PIN
9. HD-7/7500/9 SERIES SAFETY KEEPER ROLLER
10. HD/HDS SERIES CROSSTUBE SHEAVE WELDMENT
11. HD/HDS SERIES SLACK SAFETY WELDMENT
12. HD-7/7500/9 SERIES CROSSTUBE SHEAVE SHAFT WELDMENT
13. HD/HDS SERIES SAFETY WELDMENT
14. HD/HDS SERIES SAFETY KEEPER ROLLER
15. HD/HDS SERIES CROSSTUBE SHEAVE WELDMENT
16. HD/HDS SERIES SLACK SAFETY WELDMENT
17. HD/HDS SERIES SAFETY PIN
18. HD/HDS SERIES SAFETY KEEPER ROLLER
19. HD/HDS SERIES CROSSTUBE SHEAVE WELDMENT
20. HD/HDS SERIES SLACK SAFETY WELDMENT
21. HD/HDS SERIES SAFETY PIN
22. HD/HDS SERIES SAFETY KEEPER ROLLER

NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. THREAD M16 HARDWARE ONTO LADDER BOLTS AS SHOWN

DETAIL A
SCALE 1 : 2

DETAIL B
SCALE 1 : 20
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. INSERT PARTS BAG INTO PARTS BOX FOR SHIPMENT
3. THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT
4. HOSES AND CABLES IN REPRESENTATIONAL FORM
5. (*) LENGTH FOR REFERENCE ONLY

TABLE:

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>REV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5174092</td>
<td>HD-7/9 SERIES PARTS BAG</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>2</td>
<td>5745014</td>
<td>HD-775/900/9 SERIES DRIVE UP RAMP PIN</td>
<td>4</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>5700800</td>
<td>FLEX TUBE AND HUB 1200mm</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>5715003</td>
<td>POWER UNIT VIBRATION DAMPENER</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>5</td>
<td>5215096</td>
<td>PUSH BUTTON AIR ASSEMBLY</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>6</td>
<td>5955004</td>
<td>HD-9X CABLE ASSEMBLY Ø10 x 2958mm ST</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>7</td>
<td>5955006</td>
<td>HD-7/7A CABLE ASSEMBLY Ø10 x 4578mm ST</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>5955014</td>
<td>HD-7/7X9//7A CABLE ASSEMBLY Ø10 x 7924mm ST</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>5955016</td>
<td>HD-9/7A CABLE ASSEMBLY Ø10 x 8706mm ST</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>5955024</td>
<td>HD-9X CABLE ASSEMBLY Ø10 x 2958mm</td>
<td>1</td>
<td>F</td>
</tr>
<tr>
<td>11</td>
<td>5595248</td>
<td>HD-9X CABLE ASSEMBLY Ø10 x 4578mm</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>5595257</td>
<td>HD-9X CABLE ASSEMBLY Ø10 x 7924mm</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>5595258</td>
<td>HD-9X CABLE ASSEMBLY Ø10 x 8706mm</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>5700072</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>4</td>
<td>A</td>
</tr>
<tr>
<td>15</td>
<td>5570795</td>
<td>POLY-FLO TUBING 15000*mm</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>5700074</td>
<td>HD-7 SERIES FLEX TUBE BRACKET PLATE</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>17</td>
<td>5700075</td>
<td>HD-7 SERIES FLEX TUBE ANGLE</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>18</td>
<td>5700076</td>
<td>WASHING DYE METER</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>5700077</td>
<td>HYDRAULIC HOSE ASSEMBLY Ø4 x 3380mm</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>20</td>
<td>5700078</td>
<td>HD-7/750/9 SERIES TOP PLATE</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>5900112</td>
<td>INSTALLATION MANUAL</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>22</td>
<td>5900151</td>
<td>BENDPAK #90 WELCOME PACK</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>23</td>
<td>5900152</td>
<td>ALIGN OIM OPERATION INSPECTION &amp; MAINTENANCE</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>24</td>
<td>5900153</td>
<td>SAFETY TIPS CARD ALL-90</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>25</td>
<td>5955150</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>26</td>
<td>5955151</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>27</td>
<td>5955152</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>28</td>
<td>5955153</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>29</td>
<td>5955154</td>
<td>HD-9 SERIES CROSSTUBE COVER, PLASTIC</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

NOTE: UNLESS OTHERWISE SPECIFIED.
NOTE: UNLESS OTHERWISE SPECIFIED.

1. GREASE SEALS PRIOR TO ASSEMBLY
2. PRESSURE TEST CYLINDER ASSEMBLY 100% TO 3,600 PSI. (NO LEAKS)
3. MARK IN APPROXIMATE LOCATION WITH THE FOLLOWING INFORMATION: MANUFACTURER MONTH/ YEAR PART NUMBER

OIL PRESSURE
THIS SIDE ONLY

SECTION A/A
SCALE 1:2

ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE
### Revision History

<table>
<thead>
<tr>
<th>REV</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>EDITED BY</th>
<th>ECO#</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>UPDATED NEXT ASSEMBLY, NEXT ASSEMBLIES</td>
<td>12/11/2008</td>
<td>AC</td>
<td>00256</td>
</tr>
<tr>
<td>E-001</td>
<td>UPDATED NEXT ASSEMBLY</td>
<td>01/12/2009</td>
<td>AC</td>
<td>00174</td>
</tr>
<tr>
<td>E-002</td>
<td>UPDATED NEXT ASSEMBLY</td>
<td>07/27/2009</td>
<td>AC</td>
<td>00249</td>
</tr>
<tr>
<td>E-003</td>
<td>UPDATED NEXT ASSEMBLY</td>
<td>02/24/2010</td>
<td>AC</td>
<td>00333</td>
</tr>
<tr>
<td>F</td>
<td>UPDATED TITLE TO REFLECT WHERE USED, UPDATED NEXT ASSEMBLY</td>
<td>01/20/2011</td>
<td>TM</td>
<td>00439</td>
</tr>
<tr>
<td>F-001</td>
<td>UPDATED NEXT ASSEMBLY</td>
<td>06/06/2011</td>
<td>TM</td>
<td>00464</td>
</tr>
<tr>
<td>F-002</td>
<td>UPDATED NEXT ASSEMBLIES</td>
<td>11/20/2012</td>
<td>TM</td>
<td>00562</td>
</tr>
<tr>
<td>F-003</td>
<td>UPDATED NEXT ASSEMBLIES</td>
<td>05/20/2013</td>
<td>TM</td>
<td>00593</td>
</tr>
<tr>
<td>G</td>
<td>REPLACED 5570110 WITH 5570129</td>
<td>1/9/2015</td>
<td>MR</td>
<td>00675</td>
</tr>
</tbody>
</table>

### Item Table

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>REV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5570129</td>
<td>Ø6.4 ID HYDRAULIC HOSE 3314mm*</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>5550325</td>
<td>FTG NPL Ø1/4 CRIMP x -04 JIC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5550345</td>
<td>FTG ELB Ø1/4 CRIMP x -04 JIC</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

1. **Note: Unless otherwise specified, for item 1 specifications refer to part specification form.**
2. (*) item 1 qty for reference only.

### Drawing Information

- **Title:** HD-14/14SS/14X HD-9/9A/9N/9PL/9ST/9AE HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm
- **Drawing Number:** 5570022
- **Scale:** 1:2
- **Tanggal:** 12/17/2007
- **Location:** 1645 Lemonwood Dr, Santa Paula, CA 93060
- **Copyright:** BendPak Inc. All rights reserved.
<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>REV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5570053</td>
<td>PE FLEX TUBE Ø34.5xØ29 1386mm*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5555555</td>
<td>WQG1-M36/AD34.5 CONNECTOR</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>5535050</td>
<td>PLASTIC NUT M36 x 2</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

**REV** | **DESCRIPTION** | **DATE** | **EDITED BY** | **ECO** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A-001</td>
<td>PRODUCTION RELEASE</td>
<td>09/05/2008</td>
<td>AC</td>
<td>00104</td>
</tr>
<tr>
<td>A-002</td>
<td>CHANGED SURFACE FINISH FROM 3.2 µm TO 1.6 Ra µm</td>
<td>10/02/2008</td>
<td>AC</td>
<td>00140</td>
</tr>
<tr>
<td>B</td>
<td>UPDATE TUBE TO NEW STYLE, UPDATED NEXT ASSEMBLY AND TITLE</td>
<td>12/11/2008</td>
<td>AC</td>
<td>00255</td>
</tr>
<tr>
<td>B-001</td>
<td>UPDATED NEXT ASSEMBLY</td>
<td>05/04/2009</td>
<td>AC</td>
<td>00277</td>
</tr>
<tr>
<td>B-013</td>
<td>UPDATED NEXT ASSEMBLIES</td>
<td>05/17/2013</td>
<td>TM</td>
<td>00593</td>
</tr>
</tbody>
</table>

**NOTE: UNLESS OTHERWISE SPECIFIED.**

1. FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
2. (*)ITEM 1 QTY FOR REFERENCE ONLY
NOTE: UNLESS OTHERWISE SPECIFIED.

1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINT BENDPAK BLUE

APPLY #30 GRIT ALUMINUM OXIDE WHEN PAINTING TO TOP ONLY AFTER WELDING
NOTE: UNLESS OTHERWISE SPECIFIED.

1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINT BENDPAK BLUE
4. APPLY #30 GRIT ALUMINUM OXIDE WHEN PAINTING TO TOP ONLY AFTER WELDING

ITEM NO | PART NUMBER | DESCRIPTION | QTY | REV
---|---|---|---|---
1 | 5701467 | HD-7/7500/9 SERIES OFF SIDE RAMP | 1 | C
2 | 5735090 | HD-7500/9 SERIES RAMP STRAP | 1 | B
3 | 5755090 | HD-7/7500/9 SERIES DRIVE UP RAMP HINGE TUBE | 4 | C
4 | 5700190 | ROLLING BRIDGE BEAM | 1 | A
5 | 5736090 | HD-7/7500/9 SERIES RAMP END PLATE | 2 | C

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM
TOLERANCES:
±0.5
±0.3
ANGULAR: ±0.5°

SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES
UNLESS OTHERWISE SPECIFIED

NEXT ASSEMBLY
5245383
5245390
5245395
5245396

REV
DESCRIPTION
DATE
EDITED BY
ECO#
**NOTE: UNLESS OTHERWISE SPECIFIED.**

1. BREAK AND DEBurr ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINT BENDPAK BLUE
NOTE: UNLESS OTHERWISE SPECIFIED.
1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINT BENDPAK BLUE
NOTE: UNLESS OTHERWISE SPECIFIED.
1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm.
PART SPECIFICATION FORM

BENDPAK Number: 5900123
MRP Description: HD-9 INSTALLATION MANUAL
Date: 05/12/2016
ECO: 00741

1. Engineering Specification

Application:
INSTALLATION MANUAL

Detailed Description:

WARNING
SUPPORT STANDS MUST BE PLACED AT EQUIDISTANT DISTANCES FROM THE MACHINE TO AVOID BALANCE ISSUES.

9,000 POUND CAPACITY COMMERCIAL GRADE FOUR-POST LIFTS

MODELS:
- HD-9ST
- HD-9
- HD-9TX
- HD-9XW
- HD-9XL

INSTALLATION AND OPERATION MANUAL

IMPORTANT SAFETY INSTRUCTIONS

1. READ THE ENTIRE INSTALLATION AND OPERATING MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING YOU AGREE THAT YOU FULLY UNDERSTAND AND CONSENT TO THE FULL CONTENTS OF THIS MANUAL. PROMULGATE THIS MANUAL TO ALL OPERATORS WHO WILL OPERATE THIS EQUIPMENT AS DIRECTED."IMPORTANT SAFETY INSTRUCTIONS"

DECK
- Your HD-9 was designed and built with safety in mind. The manaul and the important safety instructions shown in the manual and the important safety instructions shown before this operation removed the HD-9 in all cases. Make sure that ALL USERS read and understand this manual.

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1)
# PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th><strong>BENDPAK Number:</strong></th>
<th>5900147</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MRP Description:</strong></td>
<td>SAFETY MANUAL ALI / SM 93-1</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>12/28/2010</td>
</tr>
<tr>
<td><strong>ECO:</strong></td>
<td>00431</td>
</tr>
</tbody>
</table>

## 1. Engineering Specification

**Application:**
ALI SAFETY MANUAL

**Detailed Description:**

![Lifting Right Manual](image)

## 2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5900151</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>BENDPAK #90 WARRANTY CARD</td>
</tr>
<tr>
<td>Date:</td>
<td>11/02/2015</td>
</tr>
<tr>
<td>ECO</td>
<td>00683</td>
</tr>
</tbody>
</table>

OBSOLETE – NO LONGER NEEDED

1. Engineering Specification

**Application:**
CUSTOMER WARRANTY CARD

**Detailed Description:**

WARRANTY REGISTRATION CARD

This warranty card MUST be filled out and returned to the factory immediately. Online registration is also available at: www.bendpak.com/support/register-your-product. Your cooperation will help us contact you with future updates, application notes, technical service bulletins and/or help expedite any possible warranty adjustments.

MODEL NO: __________ SERIAL NO: ___________ PURCHASE DATE: __________
NAME: ____________________________________________
COMPANY NAME: ___________________________________
ADDRESS: _______________________________________________________________________
CITY: ______________________________________ STATE: _____ ZIP: ________
BUSINESS PHONE: (______) __________ FAX: (______) __________
CELL PHONE: (______) __________ OTHER PHONE: (______) __________
Purchased From (Dealer) COMPANY NAME: __________________________
ADDRESS: _______________________________________________________________________
CITY: ______________________________________ STATE: _____ ZIP: ________
BUSINESS PHONE: (______) __________ FAX: (______) __________

Thank you for your cooperation.

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. Engineering Specification

**Application:**
ALI OPERATION INSPECTION & MAINTENANCE MANUAL

**Detailed Description:**

![](image)

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905103</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>WARNING ALI/WL 200</td>
</tr>
<tr>
<td>Date:</td>
<td>05/06/2013</td>
</tr>
<tr>
<td>ECO:</td>
<td>00593</td>
</tr>
</tbody>
</table>

1. Engineering Specification

Application:
ALI 4 POST SAFETY STICKER KIT

Detailed Description:

SIZE: 11" L x 8.5" W (279mm x 216mm)

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905151</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>SAFETY TIPS CARD ALI-ST 90</td>
</tr>
<tr>
<td>Date:</td>
<td>12/28/2010</td>
</tr>
<tr>
<td>ECO:</td>
<td>00431</td>
</tr>
</tbody>
</table>

## 1. Engineering Specification

### Application:

**ALI SAFETY TIPS**

### Detailed Description:

![Safety Tips Card](image)

1. Insure lift is dry. Never operate if lift sides or if lift has broken or damaged parts. Be sure to check with original equipment manufacturer’s manual.
2. Operate controls are designed to cease when released. Don’t back operator or operator load.
3. Never exceed rated lift. Manufacturer’s rated capacity is shown on hanger plate affixed to the lift.
4. Positioning of vehicle and operation of the lift should be done only by trained and authorized personnel.
5. Never place vehicle with anyone inside it. Do not enter or travel under vehicles.
6. Always keep lift area free of obstructions, grease, oil, trash and other debris.
7. Before driving vehicle over lift, position arms and supports to provide adequate clearance. Do not lift vehicle too high.
8. Always turn off engine before up-lifting, down-lifting, or when vehicle is on lift. Do not leave lift alone.
9. Once vehicle is lifted, remove props and supports. ALWAYS use appropriate lifting points. Never lift vehicle by engine, transmission, or other components.
10. Note that when some vehicle components are removed (e.g., tires), it is strongly suggested to always have all components on when vehicle is on lift. Always lift vehicle at the vehicle manufacturer’s recommended lift points. Failure to follow these procedures may void warranty on components or vehicle.
11. Before lowering lift, be sure trip hooks, leads, etc. are removed from under vehicle. Release lowering device before lowering lift.

These “Safety Tips”, along with general lift safety guidelines, are presented as an awareness. Always refer to original equipment manufacturer’s manual for complete instructions in the use and operation of this equipment. Always refer to original equipment manufacturer’s manual for complete instructions in the use and operation of this equipment.

Lifts from this manufacturer are only to be used as an automotive lift and must be used for the intended purpose. Improper use or modification of the lift could result in personal injury.

## 2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**PART SPECIFICATION FORM**

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905311</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>BENDPAK LABEL; 4 x 38” WHITE INK</td>
</tr>
<tr>
<td>Date:</td>
<td>05/13/2015</td>
</tr>
<tr>
<td>ECO :</td>
<td>00689</td>
</tr>
</tbody>
</table>

1. **Engineering Specification**

**Application:**
BENDPAK LABEL

**Detailed Description:**

SIZE: 38” L x 4.25” W (965mm x 108mm)

- Material: Yellow Represents Clear Adhesive PET
- Size: 4.25”W x 38”H
- Thickness: 4 Mil
- Finish: Polished
- Ink: U.V. protected, Opaque White
- Print Process: Silk Screen, 85 line-screen (Opaque White ink, clear adhesive PET will fill in blank areas.)
- Lamination: Clear-gloss over-laminate for abrasion, chemical, and ultra violet protection

2. **Vendor Information**

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART SPECIFICATION FORM

BENDPAK Number: 5905402
MRP Description: MAX CAP DANGER
Date: 12/10/2015
ECO: 00724

1. Engineering Specification

**Application:**
LIFT CAPACITY STICKER

**Detailed Description:**

Size: 4"W x 5"H  
Material: White Vinyl Pressure Sensitive Adhesive  
Thickness: 4 Mil  
Ink: U.V. protected CMYK 2/C Process  
Finish: Polished  
Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital  
Lamination: Clear-gloss over-laminate for abrasion, chemical, and ultra violet protection

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905465</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>MANUFACTURER LABEL</td>
</tr>
<tr>
<td>Date:</td>
<td>05/07/2013</td>
</tr>
<tr>
<td>ECO:</td>
<td>00593</td>
</tr>
</tbody>
</table>

## 1. Engineering Specification

**Application:**
MANUFACTURER LABEL

**Detailed Description:**
MFD. BY BENDPAK INC.

- **LIFT TYPE:** SURFACE MOUNT
- **CAPACITY:** MED/HVY DTY
- **POWER:** ELECTRIC/HYDRAULIC
- **ANCHORS:** AS EQUIPPED
- **INSTALLATION:** SEE OWNERS GUIDE OR CONTACT FACTORY

**SHIPPING DAMAGE CLAIMS:**
When this equipment is shipped, title passes to the purchaser upon receipt from the carrier. Consequently, claims for the material damaged in shipment must be made by the purchaser against the transportation company at the time shipment is received.

**PLEASE READ ALL OPERATOR'S MANUAL(S) PRIOR TO INSTALLATION AND OPERATION. UNDERSTAND AND COMPREHEND THE FULL CONTENTS OF EACH MANUAL(S) PRIOR TO INSTALLATION AND OPERATION. DELIVER THE MANUAL(S) TO ALL OPERATORS. FAILURE TO OPERATE THIS EQUIPMENT AS DIRECTED MAY CAUSE INJURY OR DEATH.**

**IMPORTANT NOTE:**
BENDPAK LIFTS ARE SUPPLIED WITH CONCRETE FASTENERS MEETING THE CRITERIA AS PRESCRIBED BY ASTM E488 - 11(2012). LIFT OWNERS ARE RESPONSIBLE FOR ANY SPECIAL REGIONAL STRUCTURAL AND/OR SEISMIC ANCHORING REQUIREMENTS SPECIFIED BY ANY OTHER AGENCIES AND/OR CODES SUCH AS THE UNIFORM BUILDING CODE (UBC) AND/OR INTERNATIONAL BUILDING CODE (IBC).

**INTERNAL BAR CODE - FOR FACTORY AUDIT ONLY 34086**

**BPK | STYOT | P20KVR | X18576 | MY4 DTY/ GVR**

**THE MANUFACTURE USE, SALE OR IMPORT OF THIS PRODUCT MAY BE SUBJECT TO ONE OR MORE UNITED STATES PATENTS, OR BEING APPLIED, OWNED BY BENDPAK, INC.**

**ENGINEERED BY BENDPAK INC USA MADE IN CHINA**

## 2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART SPECIFICATION FORM

BENDPAK Number: 5905556
MRP Description: 4-POST SAFETY DECAL
Date: 05/06/2013
ECO: 00593

1. Engineering Specification

Application:
4-POST SAFETY DECAL

Detailed Description:
SIZE: 23” L x 4” W (584m x 100mm)

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART SPECIFICATION FORM

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905940</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP Description:</td>
<td>PRODUCT DATA LABEL</td>
</tr>
<tr>
<td>Date:</td>
<td>05/06/2013</td>
</tr>
<tr>
<td>ECO:</td>
<td>00593</td>
</tr>
</tbody>
</table>

1. Engineering Specification

**Application:**
PRODUCT DATA LABEL

**Detailed Description:**

![BendPak Logo]

**Size:** 2.3” L x 4.5” W (58mm x 114mm)

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 1. Engineering Specification

**Application:**
DATA SERIAL TAG, 4-POST LIFTS, CE

**Detailed Description:**
SIZE: 3” L x 3” W (76.2mm x 76.2mm)

### 2. Vendor Information (Or for Reference)

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OR BENDPAK ENGINEERING APPROVED EQUIVALENT