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

ITEM NO | PART NUMBER | DESCRIPTION | QTY | REV
---|---|---|---|---
1 | 5245400 | HDS-14LSXE LIFT SUPERSTRUCTURE | 1 | F
2 | 5250195 | PARTS BOX HDS-14LSXE | 1 | G
3 | 5905103 | WARNING ALI/WL 200 | 1 | --
4 | 5905200 | 4 POST DECAL KIT, LESS ALI | 1 | B
5 | 5905465 | MANUFACTURE LABEL | 1 | --
6 | 5905557 | MAX CAP DANGER 14K | 1 | --
7 | 5905940 | PRODUCT DATA LABEL | 1 | --
8 | 5905953 | 5905953-2015_SERIAL_TAG-D | 1 | --

REV | DESCRIPTION | DATE | EDITED BY | ECO#
---|---|---|---|---
D | REPLACED 5905953 WITH 5905953. REPLACED 5905557 WITH 5905402 | 12/10/2015 | JM | 00724
E | UPDATED BOM REVISIONS | 12/23/2015 | JM | 00741
F | UPDATED BOM REVISIONS | 11/30/2016 | TS | 00778
NOTE: UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN
### REV

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REV</th>
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<tbody>
<tr>
<td>1</td>
<td>5600138</td>
<td>HD/S-14 SERIES DRIVE UP RAMP WELDMENT</td>
<td>1</td>
<td>F</td>
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<tr>
<td>2</td>
<td>5716149</td>
<td>HD-7500/9, HD/S-14 SERIES DRIVE UP RAMP PLASTIC ROLLER</td>
<td>2</td>
<td>F</td>
</tr>
<tr>
<td>3</td>
<td>5530097</td>
<td>HHB M6 x 1.0 x 50</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>5535357</td>
<td>NUT M6 x 1.0 NL</td>
<td>2</td>
<td>-</td>
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</tbody>
</table>

**NOTE: UNLESS OTHERWISE SPECIFIED.**

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN

**DIMENSIONS ARE IN MM**

**THIRD ANGLE PROJECTION**

**REVISED: 05/16/2013**

**DRAWN: 10/04/2016**

**CHECKED: 10/04/2016**

**TITLE: HD/S-14 SERIES DRIVE UP RAMP ASSEMBLY**

**SCALE: 1:8**
NOTE: UNLESS OTHERWISE SPECIFIED.

1. VERIFY CYLINDER PORTS ARE CAPPED OFF WITH STEEL 3/8" NPT PLUG.
2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING.
3. ASSEMBLE ITEMS AS SHOWN.
### Parts List

<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>5600267</td>
<td>HDS-14LSXE OFF SIDE RAMP WELDMENT</td>
<td>1</td>
<td>G</td>
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<tr>
<td>2</td>
<td>5620247</td>
<td>HDS-14L SERIES SLIP PLATE WELDMENT</td>
<td>1</td>
<td>A</td>
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<tr>
<td>3</td>
<td>5700238</td>
<td>HDS/O-14LSX/AX FILLER PLATE</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>5700236</td>
<td>ALUMINUM DELUXE ALIGNMENT TURNPLATE 18.5 x 18.5 ASSEMBLY</td>
<td>1</td>
<td>--</td>
</tr>
</tbody>
</table>

**Do Not Scale Drawing**

**Third Angle Projection**

**Dimensions Are in mm**

**Note:** UNLESS OTHERWISE SPECIFIED.

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
### Parts List

<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>5600720</td>
<td>HDS/HDSO-14LSX CYLINDER FLANGE ARM WELDMENT</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>5716006</td>
<td>HD-14 CYL. FLANGE ARM SLIDE</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td>3</td>
<td>5520077</td>
<td>FHPS M6 x 1 x 25L</td>
<td>4</td>
<td>-</td>
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<td>4</td>
<td>553112</td>
<td>NUT M6 x 1.0</td>
<td>4</td>
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<td>5</td>
<td>5545005</td>
<td>M6 FLAT WASHER</td>
<td>4</td>
<td>-</td>
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<tr>
<td>6</td>
<td>5716176</td>
<td>HDS/HDSO-14LSX CYLINDER FLANGE ARM TOP SLIDE</td>
<td>1</td>
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<tr>
<td>7</td>
<td>5530244</td>
<td>FHPS M6 x 1 x 20</td>
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</tr>
</tbody>
</table>

**Revisions:**
- A PRODUCTION RELEASE, DERIVED FROM 5215033 12/07/2012 TM 00565
- B UPDATED BOM REVISIONS 07/31/2014 TM 00664

---

**Notes:**
- UNLESS OTHERWISE SPECIFIED.
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

---

**Dimensions:**
- 1:3 SCALE
- THIRD ANGLE PROJECTION

---

**Drawing Information:**
- 5215572
- SIZE: A
- DWG. NO.: 5215572
- REV: B
- SCALE: 1:3

---

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NOTE: UNLESS OTHERWISE SPECIFIED.

1. GREASE PINS PRIOR TO ASSEMBLY
2. ASSEMBLE ITEMS AS SHOWN

Grease pins prior to assembly. Assemble items as shown.
NOTE: UNLESS OTHERWISE SPECIFIED.

1. GREASE PINS PRIOR TO ASSEMBLY
2. ASSEMBLE ITEMS AS SHOWN

DETAIL A
SCALE 1 : 10

ITEM NO  PART NUMBER  DESCRIPTION  QTY  REV
1  5600923  HDS-14 CROSSTUBE WELDMENT, SMALL WINDOW  1  B
2  5215013  HDS-14 CROSSTUBE SHEAVE ASSEMBLY  2  A
3  5575380  HD/HDS/HDC/HDSO-14 SERIES SAFETY ROLLER  2  C
4  5600044  HD/HDS LIGHT DUTY SERIES SLACK SAFETY WELDMENT  2  E
5  5600173  HD/HDS LIGHT DUTY PIN WELDMENT  2  F
6  5755380  HD-7/750/9/14/HDSO-14 SERIES SAFETY ROLLER  2  G
7  5600760  HD/HDS LIGHT DUTY SERIES SAFETY WELDMENT  2  B
8  5600760  HD/HDS LIGHT DUTY SERIES SAFETY WELDMENT  2  B
9  5502195  AIR CYLINDER, Ø19mm x 25 STROKE  2  -
10  5505030  ROTOR CLIP 10mm SS  2  -
11  5505625  FEMALE ROD END M6 x 33mm  2  -
12  5530005  HHB M6 x 1 x 70  2  -
13  5530005  HHB M6 x 1 x 70  2  -
14  5530005  HHB M6 x 1 x 70  2  -
15  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
16  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
17  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
18  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
19  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
20  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
21  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
22  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
23  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
24  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
25  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
26  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
27  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
28  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
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30  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
31  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
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33  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
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40  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
41  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
42  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
43  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
44  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
45  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
46  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
47  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
48  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
49  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
50  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
51  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
52  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
53  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
54  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
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56  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
57  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
58  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
59  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -
60  5540002  E RING Ø1.375" OD TRUARC X5133-137  2  -

NOTE: UNLESS OTHERWISE SPECIFIED.

1. GREASE PINS PRIOR TO ASSEMBLY
2. ASSEMBLE ITEMS AS SHOWN
### Item No. | Part Number | Description | QTY | REV
|--------|------------|-------------|-----|-----
| 1      | 5215663    | HDS-14 CROSS TUBE ASSEMBLY, SMALL WINDOW | 1   | E   
| 2      | 5215104    | HDS-14 SERIES DRIVE UP RAMP ASSEMBLY | 2   | G   
| 3      | 521597     | HDS-14 CROSS TUBE ASSEMBLY, LARGE WINDOW | 1   | G   
| 4      | 5215279    | HDS-14LSXE POWER SIDE RAMP ASSEMBLY | 1   | Q   
| 5      | 5215272    | HDS-14LSXE OFF SIDE RAMP ASSEMBLY | 1   | J   
| 6      | 5620236    | HDS-14 POST WELDMENT | 3   | E   
| 7      | 5620237    | HDS-14 POST WELDMENT, POWER SIDE | 1   | E   
| 8      | 5600915    | HDS-14 SERIES SAFETY LADDER WELDMENT | 4   | B   
| 9      | 5535017    | NUT M20 x 2.5 NL | 4   | -   
| 10     | 5535303    | NUT M20 x 2.5 | 4   | -   
| 11     | 5545343    | WASHER M20 FLAT | 4   | -   
| 12     | 5746382    | HDS-14 SPACER, SAFETY LADDER, 15mm LG | 4   | A   
| 13     | 5530167    | HNB M10 x 1.5 x 45mm | 4   | A   
| 14     | 5535013    | NUT M10 x 1.5 NL | 4   | A   
| 15     | 5545341    | WASHER M10 x Ø20 FLAT | 8   | A   

**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. INSERT PARTS BAG INTO PARTS BOX FOR SHIPMENT
3. THREAD 5535011 WITH 5545345 ONTO CABLES FOR SHIPMENT
4. HOSES AND CABLES IN REPRESENTATIONAL FORM
5. (*) LENGTH FOR REFERENCE ONLY
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. FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
2. (*) ITEM 1 QTY FOR REFERENCE ONLY
### Bill of Materials

<table>
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<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REV</th>
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<td>5700062</td>
<td>RAMP SUPPORT</td>
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<td>C</td>
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<tr>
<td>2</td>
<td>5701034</td>
<td>DRIVE UP RAMP SHELL</td>
<td>1</td>
<td>D</td>
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<td>3</td>
<td>5755027</td>
<td>RAMP HINGE</td>
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<td>C</td>
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<tr>
<td>4</td>
<td>5700063</td>
<td>SUPPORT ANGLE</td>
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<td>5</td>
<td>5736083</td>
<td>ROLLER CLEVIS PLATE</td>
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<tr>
<td>6</td>
<td>5730012</td>
<td>RAMP STOP</td>
<td>1</td>
<td>C</td>
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</tbody>
</table>

### Revisions

- **D**: Updated drawing, removed 5755028, added one 5755027, changed roller clevis plate distance 38 was 57 (2nd page), changed surface finish from 3.2 µm to 1.6 Ra µm, 06/16/2008, TM 00206
- **D-001**: Changed surface finish from 3.2 µm to 1.6 Ra µm, 09/09/2008, GJ 00237
- **E**: Added HD/S-14 series to title, 10/05/2009, AC 00300
- **F**: Updated BOM revision, changed paint color from blue to yellow and added paint spec number, 07/30/2010, TM 00387, 12/08/2010, TM 00427

### Notes

- **NOTE: UNLESS OTHERWISE SPECIFIED.**
  1. Break and deburr all sharp edges 0.3mm
  2. Remove all weld splatter
  3. Grind/sand exterior corners/welds smooth
  4. Paint BendPak yellow 583-21
  5. Apply #30 grit aluminum oxide when painting to top only after welding

---

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NOTE: UNLESS OTHERWISE SPECIFIED.
1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. APPLY #30 GRIT ALUMINUM OXIDE TO TOP SURFACE AFTER WELDING & BEFORE PAINTING
4. PAINT BENDPAK BLUE

SECTION: HDS-14LSXE POWER SIDE RAMP WELDMENT

ITEM NO. | PART NUMBER | DESCRIPTION | Q'TY | REV. | DATE | NAME | DB
--- | --- | --- | --- | --- | --- | --- | ---
1 | 5701152 | HDS-14LSXE POWER SIDE RAMP | 1 | B | 07/31/2014 | TM | 00664
2 | 5620246 | HDS/HDSO-14 SERIES END PLATE WELDMENT | 2 | B | 12/08/2015 | JM | 00724
3 | 5701816 | HDS-14 TURNPLATE SUPPORT CHANNEL | 1 | B | 03/25/2016 | TM | 00741
4 | 5731038 | HDS-14LSX/LSXE RAMP CASTER PLATE | 1 | A | 03/25/2016 | TM | 00741
5 | 5731035 | HDS/HDSO-14 FRONT RAMP SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
6 | 5731020 | HDS/HDSO-14 REAR RAMP SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
7 | 5731623 | HDS/HDSO-14 REAR RAMP AIR SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
8 | 5731036 | HDS/HDSO-14 FRONT RAMP AIR SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
9 | 5736032 | HDS-14LSXE CASTER RETAINER | 2 | A | 03/25/2016 | TM | 00741
10 | 5736016 | HDS-14 CYLINDER MOUNTING PLATE | 1 | A | 03/25/2016 | TM | 00741
11 | 5736165 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
12 | 5736163 | HDS-14 CYLINDER MOUNTING PLATE | 1 | A | 03/25/2016 | TM | 00741
13 | 5736161 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
14 | 5736162 | HDS-14 CYLINDER MOUNTING PLATE | 1 | A | 03/25/2016 | TM | 00741
15 | 5736160 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
16 | 5736159 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
17 | 5736158 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
18 | 5736157 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
19 | 5736156 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741
20 | 5736155 | HDS-14 CYLINDER SUPPORT PLATE | 1 | A | 03/25/2016 | TM | 00741

DIMENSIONS ARE IN MM
TOLERANCES:
0. = ±1.5
0.0 = ±0.5
ANGULAR: 0. = ±2°
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

TITLE: HDS-14LSXE POWER SIDE RAMP WELDMENT
SIZE: A
DWG. NO.: 5600259
SCALE: 1:27.5
NOTE: UNLESS OTHERWISE SPECIFIED.

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

DIMENSIONS ARE IN MM
TOLERANCES:
  0. = ±1.5
  0.0 = ±0.5
ANGULAR: 0. = ±5°
SURFACE FINISH 1.6 (50 µm) FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED

DRAWN G.J.Z
CHECKED DB
03/12/2009
06/16/2016
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

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**NOTE: UNLESS OTHERWISE SPECIFIED.**

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

---

**ITEM NO | PART NUMBER | DESCRIPTION | QTY | REV**
--- | --- | --- | --- | ---
1 | 5766077 | HDS-14 CROSSTUBE, LARGE WINDOW | 1 | B
2 | 5755027 | CROSSTUBE SAFETY BLOCK | 2 | B
3 | 5755010 | AIR SAFETY TROUGH | 1 | C
4 | 5755011 | SMALL AIR SAFETY TROUGH | 1 | C
5 | 5755023 | HD-14 SERIES TOP CROSS TUBE STRAP | 1 | E
6 | 5755039 | AIR SAFETY TROUGH | 1 | C
7 | 5620229 | HDS-14 CROSSTUBE END PLATE #1 WELDMENT | 1 | F
8 | 5620230 | HDS-14 CROSSTUBE END PLATE #2 WELDMENT | 1 | F
9 | 5620231 | HDS-14 CROSSTUBE END PLATE #3 WELDMENT | 1 | F
10 | 5760003 | HDO/HDSO-14 RAMP STOP | 1 | D
11 | 5735073 | HDO/HDSO-14 CARRIAGE TIE BLOCK | 2 | B
12 | 5735073 | HDS-14 CROSSTUBE, LARGE WINDOW | 1 | B

---

**REVISIONS**

- **F**: UPDATED BOM REVISIONS AND NEXT ASSEMBLY 04/25/2013 TM 00593
- **G**: UPDATED BOM REVISION 03/31/2014 TM 00648
- **H**: ADDED [2] 5735073 01/22/2016 JM 00741

---

**DIMENSIONS ARE IN MM**

TOLERANCES:
- \( 0 = \pm 1.5 \)
- \( 0.0 = \pm 0.5 \)

ANGULAR:
- \( 0 = \pm 2° \)

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

---

**SCALE: 1:20**

**DRAWN**

G.J. 11/12/2008

**CHECKED**

DB 06/16/2016

**TITLE:**

HDS-14 CROSSTUBE WELDMENT, LARGE WINDOW

**DWG. NO.**

5600276

**REV.**

H

---

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

1. **BREAK AND DEBURR ALL SHARP EDGES 0.3mm**
2. **REMOVE ALL WELD SPLATTER**
3. **DIMENSIONS SHOWN ARE AFTER PAINTING**
4. **PAINT BENDPAK BLUE**

---

**TOLERANCES:**

- **Angular:** $0.1 = \pm 1.5$
- **Linear:** $0.0 = \pm 0.5$

**SURFACE FINISH:** 1.6 ISO Ra µm for machined surfaces, unless otherwise specified.

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### PARTS LIST

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REV</th>
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<tbody>
<tr>
<td>2</td>
<td>5736289</td>
<td>HD/HDS-14 SERIES TOP PLATE</td>
<td>1</td>
<td>A</td>
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<tr>
<td>2</td>
<td>5721002</td>
<td>TOP PLATE ANGLE</td>
<td>2</td>
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**DRAWN:** AC

**CHECKED:** DB

**DATE:** 02/10/2010

**DATE:** 09/26/2016

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**ISOMETRIC VIEW**

FOR REFERENCE ONLY

DO NOT SCALE
NOTE: UNLESS OTHERWISE SPECIFIED.

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

TOLERANCES:

0.0 = ±1.5
0.00 = ±0.5

SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES

UNLESS OTHERWISE SPECIFIED

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.
**NOTE: UNLESS OTHERWISE SPECIFIED**

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

---

**ITEM NO | PART NUMBER | DESCRIPTION | QTY | REV**
---
1 | 5766036 | HDS-14 CROSSTUBE, SMALL WINDOW | 1 | C
2 | 5735027 | CROSSTUBE SAFETY BLOCK | 2 | B
3 | 5755010 | AIR SAFETY TROUGH | 1 | C
4 | 5755011 | SMALL AIR SAFETY TROUGH | 1 | C
5 | 5755023 | HD-14 SERIES TOP CROSS TUBE STRAP | 1 | E
6 | 5735039 | HD/HDO-14 BOTTOM CROSS TUBE STRAP | 1 | E
7 | 5620228 | HDS-14 CROSSTUBE END PLATE #1 WELDMENT | 1 | G
8 | 5620229 | HDS-14 CROSSTUBE END PLATE #2 WELDMENT | 1 | F
9 | 5620230 | HDS-14 CROSSTUBE END PLATE #3 WELDMENT | 1 | E
10 | 5620231 | HDS-14 CROSSTUBE END PLATE #4 WELDMENT | 1 | F
11 | 5760003 | HD-12/14 RAMP STOP | 1 | D
12 | 5735073 | HDO/HDSO-14 CARRIAGE TIE BLOCK | 2 | B

---

**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.

---

**NEXT ASSEMBLY**

**REVDWG. NO.**

**SIZE**

**DRAWN**

**CHECKED**

**REV**

**SCALES**

**TM**

**DATE**

**EDITED BY**

**ECO#**
NOTE: UNLESS OTHERWISE SPECIFIED.
1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm.
# PART SPECIFICATION FORM

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

## 1. Engineering Specification

**Application:**
- ALI SAFETY MANUAL

**Detailed Description:**

![Image of ALI SAFETY MANUAL]

## 2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
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<td><strong>MRP Description</strong>:</td>
<td>ALIGN OIM OPERATION INSPECTION &amp; MAINTENANCE</td>
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<tr>
<td><strong>Date</strong>:</td>
<td>12/28/2010</td>
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<tr>
<td><strong>ECO</strong>:</td>
<td>00431</td>
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</table>

## 1. Engineering Specification

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

**Detailed Description:**

![Image of manual](image_url)

## 2. Vendor Information

<table>
<thead>
<tr>
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<th>Contact #</th>
<th>Preferred Vendor</th>
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PART SPECIFICATION FORM

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<tr>
<td>MRP Description:</td>
<td>HDS-14 ALIGNMENTS INSTALLATION MANUAL</td>
</tr>
<tr>
<td>Date:</td>
<td>07/12/2013</td>
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<tr>
<td>ECO:</td>
<td>00593</td>
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</table>

1. Engineering Specification

**Application:**
INSTALLATION MANUAL

**Detailed Description:**

![Installation and Operation Manual]

2. Vendor Information

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

BENDPAK Number: 5905103
MRP Description: WARNING ALI/WL 200
Date: 05/06/2013
ECO: 00593

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>
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<tr>
<td>MRP Description:</td>
<td>SAFETY TIPS CARD ALI-ST 90</td>
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<td>Date:</td>
<td>12/28/2010</td>
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<tr>
<td>ECO:</td>
<td>00431</td>
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</table>

## 1. Engineering Specification

**Application:**
**ALI SAFETY TIPS**

**Detailed Description:**

![Safety Tips Card](image)

### AUTOMOTIVE LIFT SAFETY TIPS

Find those safety tips where they will be a constant reminder to your lift operator. For information specific to this lift, always refer to the lift manufacturer’s manual.

1. Inspect your lift daily. Never operate if it malfunctions or if it has broken or damaged parts. Never use the lift if the electrical wiring or hydraulic systems are damaged. Keep the electrical control panel free of water and other liquids.
2. Operating controls are designed to sense when released. Do not block open or reverse them.
3. Never overload your lift. The lift’s rated capacity is shown on a plaque affixed to the lift.
4. Positioning of vehicle and operation of the lift should be done only by trained and authorized personnel.
5. Never leave vehicles with anyone inside it. Coworkers or bystanders should not be in the lift area during operation.
6. Always keep lift area free of obstructions, garbage, oil, trash and other debris.
7. Before driving vehicle onto lift, position arms and supports to provide additional stability. Do not lift vehicle with lift arms, supports, or other lift equipment.
8.&quot; Lift vehicle on lift safely. Position lift supports to contact at the vehicle manufacturer’s recommended lifting points. Those lift supports should contact the vehicle undercarriage. Always use lift supports on vehicle undercarriage. Check supports to ensure they are on vehicle undercarriage. Do not lift vehicle with lift arms, supports, or other lift equipment.
9. &quot;Note that while some vehicles, the removal (or installation) of components or the use of a modular lift, it is important that the lift be designed and made to cover vehicle instability. Also, the vehicle manufacturer’s service manual for the installation procedures for vehicles (components or vehicles)...
10. Before lowering lift, lift, lift and support, etc. are removed from under vehicle. Release locking device before lowering lift.
11. &quot;Safety Tips,” along with general lift safe, are presented on an avoid any non-conformity. The lift manufacturer’s manual provides information on safe operation.

Look For This Label on All Automotive Service Lifts.

## 2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
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<td><strong>MRP Description:</strong></td>
<td>BENDPAK LABEL: 4 x 38” WHITE INK</td>
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<td><strong>Date:</strong></td>
<td>05/13/2015</td>
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<tr>
<td><strong>ECO:</strong></td>
<td>00689</td>
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</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>
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<td>1)</td>
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</tbody>
</table>
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 OPERATORS/USERS 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 – 96(2003). LIFT BUYERS 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  |  HVY DTY/ GVR 832

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

ENGINEERED BY BENDPAK INC USA  MADE IN CHINA
### Engineering Specification

**Application:** MANUFACTURER LABEL

**Detailed Description:**

- SIZE: 5.125” L x 5.125” W (130mm x 130mm)

---

**Shipping Damage Claims:**

When the 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/USER 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 ASMI E45-86(2003). Lift buyers 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:**

- BPX | STY1T | PD00V | 13579 | HYD DTY/GVR | 832

---

**Manufacture, Use, Sale or Import of This Product May Be Subject to One or More United States Patents, Or Pending Applications. Owned by BendPak, Inc.**

**Engineered by BendPak Inc USA**

**Made in China**

---

### Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
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## PART SPECIFICATION FORM

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<tbody>
<tr>
<td>MRP Description</td>
<td>4-POST SAFETY DECAL</td>
</tr>
<tr>
<td>Date</td>
<td>05/06/2013</td>
</tr>
<tr>
<td>ECO</td>
<td>00593</td>
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</table>

### 1. Engineering Specification

**Application:**
4-POST SAFETY DECAL

**Detailed Description:**

![Image of warning decal]

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>
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</tbody>
</table>
1. Engineering Specification

**Application:**
LIFT CAPACITY STICKER

**Detailed Description:**
SIZE: 5” L x 4” W (127mm x 100mm)

2. Vendor Information

<table>
<thead>
<tr>
<th>Approved Vendor</th>
<th>Vendor Part #</th>
<th>Contact #</th>
<th>Preferred Vendor</th>
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<tbody>
<tr>
<td>1)</td>
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</tbody>
</table>
SANTA PAULA, CA USA
WWW.BENDPAK.COM
PN 5905940

LIFT TYPE: SURFACE MOUNT  CAP: MED/HVY DTY  MFG. BPK  SEE DATA PLATE FOR PRODUCT DETAILS

POWER: ELECTRIC/HYDRAULIC  INSTALLATION - SEE OWNERS GUIDE OR CONTACT FACTORY

SAFETY INSTRUCTIONS: IF ATTACHMENTS, ACCESSORIES OR CONFIGURATION MODIFYING COMPONENTS THAT ARE LOCATED IN THE LOAD PATH, AFFECT OPERATION OF THE LIFT, AFFECT THE LIFT ELECTRICAL LISTING OR AFFECT INTENDED VEHICLE ACCOMMODATION ARE USED ON THIS LIFT AND, IF THEY ARE NOT CERTIFIED FOR USE ON THIS LIFT, THEN THE CERTIFICATION OF THIS LIFT SHALL BECOME NULL AND VOID. CONTACT THE PARTICIPANT FOR INFORMATION PERTAINING TO CERTIFIED ATTACHMENTS, ACCESSORIES OR CONFIGURATION MODIFYING COMPONENTS.

BENDPAK LIFTS ARE SUPPLIED WITH CONCRETE FASTENERS MEETING THE CRITERIA AS PRESCRIBED BY ASTM E488-96(2003). LIFT BUYERS 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).

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

DO NOT REMOVE  ENGINEERED BY BENDPAK INC. USA  MADE IN CHINA
1. Engineering Specification

**Application:**
PRODUCT DATA LABEL

**Detailed Description:**

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>
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<th>Preferred Vendor</th>
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PART SPECIFICATION FORM

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1. Engineering Specification

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

**Detailed Description:**

![Image of serial tag]

**Size:** 3” L x 3” W (76.2mm x 76.2mm)

2. Vendor Information (Or for Reference)

<table>
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OR BENDPAK ENGINEERING APPROVED EQUIVALENT
<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>SERIAL NUMBER</th>
<th>LIFT CAPACITY</th>
<th>DESCRIPTION</th>
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<table>
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<tr>
<th>ROLLING JACK MAX CAP.</th>
<th>MAX PSI / BAR</th>
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<table>
<thead>
<tr>
<th>VOLTAGE</th>
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<tbody>
<tr>
<td>110-240VAC, 50-60 Hz, 1 Ph</td>
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<tr>
<td>208-240VAC, 50-60 Hz, 1 Ph</td>
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**DANGER!**
Disconnect Power Before Servicing

WARRANTY VOID IF DATA PLATE IS REMOVED