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.
### Item No | Part Number | Description                | Qty | Rev
--- | --- | --- | --- | ---
1 | 5245011 | HDS-27X LIFT SUPERSTRUCTURE | 1 | E
2 | 5250175 | PARTS BOX HDS-27X | 1 | D
3 | 5905465 | MANUFACTURER LABEL | 1 | --
4 | 5905200 | 4 POST DECAL KIT, LESS ALI | 1 | B
5 | 5905103 | WARNING ALI/WL 200 | 1 | --
6 | 5905407 | MAX CAP DANGER 27K | 1 | --
7 | 5905940 | PRODUCT DATA LABEL | 1 | --
8 | 5905953 | SERIAL NUMBER INTERIOR TAG PLATE | 1 | --

**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.
## Revision History

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## Parts List

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**NOTE:** UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN

---

**Title:** PUSH BUTTON AIR ASSEMBLY

**Size:** 5215096

**Rev:** F

**Scale:** 2:3
NOTE: UNLESS OTHERWISE SPECIFIED.

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
3. VERIFY CYLINDER PORTS ARE CAPPED OFF WITH 3/8" NPT STEEL PLUG
NOTE: UNLESS OTHERWISE SPECIFIED.

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

---

**REVISION**

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**DRAWING SPECIFICATIONS**

- **DRAWN BY:** GJZ
- **DATE:** 10/21/2008
- **DRAWN TO SCALE:** 1:4
- **PROJECTIONS:** THIRD ANGLE
- **DIMENSIONS:** IN MILLI METERS

**PROPRIETARY AND CONFIDENTIAL**

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### Drawing Information

- **Title:** HDS-27 DRIVE UP RAMP ASSEMBLY
- **Drawing No.:** 5215163
- **Scale:** 1:10
- **Drawing Dimensions:** in mm
- **Third Angle Projection**

### Notes

1. See shipping instructions for final packaging
2. Assemble items as shown

---

*NOTE: UNLESS OTHERWISE SPECIFIED.*

*DO NOT SCALE DRAWING*

*PROPRIETARY AND CONFIDENTIAL*

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NOTE: UNLESS OTHERWISE SPECIFIED.

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

SEE SHEET 2 FOR PART NUMBERS

NOTE: UNLESS OTHERWISE SPECIFIED.
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**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. FASTEN NUTS AND WASHERS TO SAFETY LADDERS IN ORDER SHOWN FOR SHIPMENT
NOTE: UNLESS OTHERWISE SPECIFIED.
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. INSERT PARTS BAG INTO PARTS BOX FOR SHIPMENT
3. THREAD 5535104 WITH 5545415 ONTO CABLES FOR SHIPMENT
4. HOSES AND CABLES IN REPRESENTATIONAL FORM
5. (*) LENGTH FOR REFERENCE ONLY

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DETAIL A
SCALE 1 : 8

TITLE: PARTS BOX HDS-27X

DRAWN: TM 05/08/2013
CHECKED: TM
REVISED: 09/22/2014
FACSIMILE OF ORIGINAL DRAWING

DIMENSIONS ARE IN MM
THIRD ANGLE PROJECTION
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NEXT ASSEMBLY 5260069

SHEET 1 OF 1

REV
C
D
E

DESCRIPTION
REMOVED 5736724, 5900153, AND 5215637, UPDATED NEXT ASSEMBLY
REMOVED 5905103, 5905200, 5905407, 5905465, 5905490, AND 5905635, UPDATED BOM REVISIONS
ADDED 5716633 AND 5550026, REMOVED 5900151, UPDATED BOM REVISIONS

DATE
09/22/2014
08/04/2015
09/21/2015

EDITED BY
TM 00666
TM 00683
TM 00724

ECO#
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**Revision History**

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**Notes**

1. FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
2. (*)ITEM 1 QTY FOR REFERENCE ONLY

---

**Title:** FLEX TUBE ASSEMBLY 1320mm

**Drawing Scale:** 1:1

**Drawing Designation:** R3570050 B

---

**Drawn by:** BendPak Inc.

**Dimensions:**

- TOLERANCES:
  - 0.00 = ±1.0
  - 0.000 = ±0.13

- ANGULAR: MACH 2°
- SURFACE FINISH 1.6 ISO Ra µm

- UNLESS OTHERWISE SPECIFIED

**Material:**

- FOR MACHINED SURFACES

---

**Notes:**

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

---

**Revision History:**

- PRODUCTION RELEASE
- CHANGED SURFACE FINISH FROM 3.2 µm TO 1.6 Ra µm
- UPDATE TUBE TO NEW STYLE, UPDATED NEXT ASSEMBLY
- UPDATED NEXT ASSEMBLY AND TITLE

---

**Page Dimensions:** 792.0x612.0
### Revision History

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<tr>
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<tr>
<td>1</td>
<td>5570116</td>
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<td>5550337</td>
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### Notes

1. FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
2. (*) ITEM 1 QTY FOR REFERENCE ONLY

### Drawing Information

- **Title:** HYD. HOSE ASSY
- **Dimensions:** Ø10 x 6782mm
- **Scale:** 1:2
- **Sheet:** 1 of 1

**CA 08/27/2015**

---

**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

---

**TABLE:**

<table>
<thead>
<tr>
<th>ITEM NO</th>
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<th>DESCRIPTION</th>
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DIMENSIONS ARE IN MM
TOLERANCES:

- \( 0. = \pm 1.5 \)
- \( 0.0 = \pm 0.5 \)

ANGLULAR:

- \( 0. = \pm 2^\circ \)

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

MATERIAL: -

---

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.
### BOM Table

<table>
<thead>
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<th>DESCRIPTION</th>
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<td>7</td>
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### Notes

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

---

**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.
### BOM Table

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<td>HD-12/14 RAMP STOP</td>
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</table>

### Notes

- **NOTE:** UNLESS OTHERWISE SPECIFIED.
  1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
  2. REMOVE ALL WELD SPLATTER
  3. PAINT BENDPAK BLUE

---

**Revision History**

- **G:** UPDATED BOM REVISION 04/21/2014 TM 00646
- **H:** UPDATED BOM REVISION 09/22/2014 TM 00666
- **J:** UPDATED BOM REVISION 01/04/2016 JM 00741

---

**Technical Specifications**

- **DIMENSIONS ARE IN MM**
- **TOLERANCES:**
  - ±0.5
  - ±1.5
- **ANGULAR:**
  - ±0.5°
- **SURFACE FINISH:** 1.6 ISO Ra µm FOR MACHINED SURFACES, UNLESS OTHERWISE SPECIFIED

---

**Drawing Details**

- **DRAWN:** GJ 09/18/2008
- **CHECKED:**
- **TITLE:** HDS-27/35 SERIES SMALL WINDOW CROSSTUBE WELDMENT
- **SCALE:** 1:20
- **DWG. NO.:** A 5600293
- **REV:** J
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
NOTE: UNLESS OTHERWISE SPECIFIED.

1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
NOTE: UNLESS OTHERWISE SPECIFIED.

1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. MATERIAL: HR ASTM A36 OR Q235 GB/T 700
3. FLAME CUT PERMISSABLE
PART SPECIFICATION FORM

BENDPAK Number: 5900147
MRP Description: SAFETY MANUAL ALI / SM 93-1
Date: 12/28/2010
ECO : 00431

1. Engineering Specification

Application:
ALI SAFETY MANUAL

Detailed Description:

2. Vendor Information

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

Application:
ALI OPERATION INSPECTION & MAINTENANCE MANUAL

Detailed Description:

[Image of American National Standard]

2. Vendor Information

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<th>Preferred Vendor</th>
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<td>MRP Description:</td>
<td>HDS TRUCK SERIES INSTALLATION MANUAL</td>
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1. Engineering Specification

**Application:** INSTALLATION MANUAL

**Detailed Description:**

**WARNING**

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS.

PLEASE READ THE INSTRUCTIONS AND ILLUSTRATIONS IN THIS MANUAL BEFORE INSTALLING OR USING THE EQUIPMENT. IF YOU DO NOT UNDERSTAND THE INSTRUCTIONS OR IF YOU HAVE ANY QUESTIONS, CALL 1-805-889-9999.

READ FIRST

INSTALLATION AND OPERATION MANUAL

Models:

HDS-18
HDS-27 / HDS-27X
HDS-38 / HDS-38X
HDS-46 / HDS-46X

RECEIVING
The shipment should be thoroughly inspected as soon as it is received. The equipment is manufactured and tested under very strict quality assurance standards. Any damage that occurs during transportation should be reported immediately to the carrier.

DO NOT ACCEPT A SHIPMENT IF IT IS DAMAGED.

SAVE THIS INSTRUCTIONAL MANUAL.

READ BEFORE USE

BendPak

BP 500

Your new lift was designed and built with safety in mind. However, very careful attention must be given to proper use. DO NOT operate or repair the equipment without reading this manual and the important safety instructions shown inside. Keep this operation manual near the lift at all times. Make sure that all operators read and understand the 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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### 1. Engineering Specification

**Application:**
ALI 4 POST SAFETY STICKER KIT

**Detailed Description:**

![Sticker Design](image)

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

### 2. Vendor Information

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

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<td>SAFETY TIPS CARD ALI-ST 90</td>
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<td>ECO:</td>
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1. Engineering Specification

**Application:**
ALI SAFETY TIPS

**Detailed Description:**

**AUTOMOTIVE LIFT SAFETY TIPS**

For those facilities who have brought their lifts in motion since your ECO, please refer to the lift manufacturer’s instruction manual.

1. Inspect all lifts prior to operations. Never operate a lift that has a damaged base. Ramps should be made with original manufacturer parts.
2. Carefully inspect all lift’s components. Do not attempt to service a lift in operation.
4. Always wear lift area, head, or other personal protective equipment, or vehicle maintenance.
5. Lifts are not to be operated in any environment where they are not intended to be operated. Always operate in lift area, head, or other personal protective equipment, or vehicle maintenance.
6. Never operate a lift in lift area, head, or other personal protective equipment, or vehicle maintenance.
7. Always wear lift area, head, or other personal protective equipment, or vehicle maintenance.

2. Vendor Information

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

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<td>Date:</td>
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1. Engineering Specification

**Application:**
BENDPAK LABEL

**Detailed Description:**

![Image of the label](image)

**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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<tr>
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PART SPECIFICATION FORM

BENDPAK Number: 5905407

MRP Description: MAX CAP DANGER 27K

Date: 05/08/2013

ECO: 00593

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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</thead>
<tbody>
<tr>
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DANGER

THE MAXIMUM LIFTING CAPACITY FOR THIS LIFT IS DESCRIBED BELOW

<table>
<thead>
<tr>
<th>Maximum Lifting Capacity</th>
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<tr>
<td>27,000 lbs. / 12,247 kg</td>
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<table>
<thead>
<tr>
<th>Max. Lifting Cap. / Front of Lift Center</th>
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<tbody>
<tr>
<td>13,500 lbs. / 6124 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. Lifting Cap. / Rear of Lift Center</th>
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</thead>
<tbody>
<tr>
<td>13,500 lbs. / 6124 kg</td>
</tr>
</tbody>
</table>

Exceeding the weight capacity of this lift can damage lift and/or property and may cause personal harm, injury or death to operators and/or bystanders. All vehicles MUST be positioned on lift with CENTER OF GRAVITY midway between adapters and/or centered on runways. Damage to lift due to overloading or misuse IS NOT covered under warranty.
# PART SPECIFICATION FORM

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## 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 OPERATORS/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 ASTM E466 - 06(2006). 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 34088**

**BPK | STYOT | P20KVR | X18576 | MHT DTY/GVR 832**

THE MANUFACTURE, 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

## 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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</thead>
<tbody>
<tr>
<td>1)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
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

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
**PART SPECIFICATION FORM**

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<td>4-POST SAFETY DECAL</td>
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1. **Engineering Specification**

**Application:**
4-POST SAFETY DECAL

**Detailed Description:**

SIZE: 23” L x 4” W (584m x 100mm)

2. **Vendor Information**

<table>
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<tr>
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<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>
Visually confirm that all primary safety locks are engaged before entering work area.

Suspended equipment and items are intended to raise or lower lift only and are NOT meant to be used as a work platform. Before using lift, be sure to check all safety locks and confirm they are engaged. Be aware of equipment/infrastructure around the job site to ensure safety locks are engaged properly.

Failure to read, understand and follow these instructions may cause death or serious injury. Read and understand these instructions before using lift.

**WIRE ROPE INSPECTION AND MAINTENANCE**

- Follow the instructions on wire rope inspection and maintenance before using lift.
- Ensure the lifting cables are not damaged or worn.
- Use only lifting cables that meet the manufacturer’s specifications.
- Always inspect the lifting cables for damage, wear, and proper mounting.
- Replace lifting cables if they are damaged or worn.

Warning

- Wire rope should be maintained in a well-lubricated condition. Use a grease gun and clean, free-flowing lubricant to ensure proper lubrication.
- Wire rope inspection and maintenance should be performed at least every 6 months or as recommended by the manufacturer.
- Always inspect the lifting cables after any event where the lift was raised or lowered.

**SAFETY LOCKS ENGAGED – BE REMOVING LIFT**

- Lift remains in the elevated position until the safety locks are disengaged.
- Lift must be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before using lift.
- Always inspect and engage safety locks before entering work area.

**WARNING**

- If cement anchor bolts are loose, or any component of the lift is damaged or not properly secured, DO NOT USE.
- Lift should be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before entering work area.
- Always inspect and engage safety locks before using lift.
- Lift should be lowered onto the nearest level surface before removing lift.

**IMPORTANT OPERATION / MAINTENANCE INSTRUCTIONS – PLEASE READ**

**TO LOWER LIFT**

- Be sure to engage all primary safety locks before lowering lift.
- Lift should be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before using lift.

**TO RAISE LIFT**

- Always inspect and engage safety locks before using lift.
- Lift should be lowered onto the nearest level surface before using lift.
- Assemble equipment properly before using lift.
- Always inspect and engage safety locks before using lift.

**SAFETY LOCKS ENGAGED – BE REMOVING LIFT**

- Lift remains in the elevated position until the safety locks are disengaged.
- Lift must be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before using lift.

**WARNING**

- If cement anchor bolts are loose, or any component of the lift is damaged or not properly secured, DO NOT USE.
- Lift should be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before entering work area.
- Always inspect and engage safety locks before using lift.
- Lift should be lowered onto the nearest level surface before removing lift.

**IMPORTANT OPERATION / MAINTENANCE INSTRUCTIONS – PLEASE READ**

**TO LOWER LIFT**

- Be sure to engage all primary safety locks before lowering lift.
- Lift should be lowered onto the nearest level surface before removing lift.
- Always inspect and engage safety locks before using lift.

**TO RAISE LIFT**

- Always inspect and engage safety locks before using lift.
- Lift should be lowered onto the nearest level surface before using lift.
- Assemble equipment properly before using lift.
- Always inspect and engage safety locks before using lift.
PART SPECIFICATION FORM

BENDPAK Number: 5905940
MRP Description: PRODUCT DATA LABEL
Date: 05/06/2013
ECO : 00593

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

<table>
<thead>
<tr>
<th>BENDPAK Number:</th>
<th>5905953</th>
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<tr>
<td>MRP Description:</td>
<td>LABEL D (4-POST Lifts CE)</td>
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<tr>
<td>Date:</td>
<td>12/04/2015</td>
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<td>ECO:</td>
<td>00724</td>
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1. Engineering Specification

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

Detailed Description:

<table>
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<th>Contact #</th>
<th>Preferred Vendor</th>
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<td>2)</td>
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OR BENDPAK ENGINEERING APPROVED EQUIVALENT

SIZE: 3.38” L x 3.38” W
(85.7mm x 85.7mm)
<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
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<table>
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<tr>
<th>LIFT CAPACITY</th>
<th>MAX PSI / BAR</th>
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<th>ROLLING JACK MAX CAP.</th>
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<td>110-240VAC, 50-60 Hz, 1 Ph</td>
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<tr>
<td></td>
<td>208-240VAC, 50-60 Hz, 1 Ph</td>
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<th>DATE OF MFG.</th>
<th>WARRANTY VOID IF DATA PLATE IS REMOVED</th>
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<td></td>
<td>PN 5905953</td>
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</table>

**DANGER!**
Disconnect Power Before Servicing
2016
CE-Approved
4 Post Lifts
Colors & Graphics

12/31/15

CONFIDENTIAL INFORMATION.
You may not disclose, print, copy or disseminate this information. Unauthorized use is a violation of federal criminal law.
4 Post Lifts Product Decal Positioning

A

B

C

BPK Post Branding Decal-Large_5905311.pdf:
Material: 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 (Yellow color in file represents what should be clear PET material and SHOULD NOT print as Yellow ink. White area in file represents Opaque White ink.)
Lamination: Clear-gloss over-laminate for abrasion, chemical, and ultra violet protection

PN 5905311

4_Post_Safety_Decal.pdf:
Size: 4"W x 23"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

PN 5905556

(Order Labels from ALI)
4 Post Lifts Product Decal Positioning

**Max. Cap. Danger.pdf:**
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

**Management Tag - 450k - 450K:**
Size: 4.5”W x 3.25”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

**Dependency:**

**PN 5905401** - Max Cap. Danger 7K
**PN 5905695** - Max. Cap. Danger 7500
**PN 5905402** - Max Cap. Danger 9K
**PN 5905957** - Max. Cap. Danger 14K
**PN 5905406** - Max Cap. Danger 18k
**PN 5905407** - Max. Cap. Danger 27K
**PN 5905408** - Max. Cap. Danger 35K
**PN 5905409** - Max. Cap. Danger 40K

**Product Data Label 5905940-New.pdf:**
Size: 4.5”W x 2.3”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

**2015 Serial_Tag-D-5905953.jpg:**
Size: 3”W x 3”H
Material: 2 Mil. Matte Silver Polyester (Flex-PSE)
Print using thermal transfer printer with resin ribbon
Ink: 1 Color-Black
4 Post Lifts Product Decal Positioning

**FOR ALL APPROVED LIFTS ONLY**

- **A** (Front & Back of post)
- **B** Side of Post
- **D, H, G, F** Front of Post (Top to Bottom)
- **E, C** Back of Post (Top to Bottom)

(Front & Back of post)
4 Post Lifts Packaging

Serial Tag New-2015 Peel Off-5905285.jpg:
Size: 3”W x 3”H
Material: Material: 2 Mil. Matte Silver Polyester (Flex-PSE)
Print using thermal transfer printer with resin ribbon
Ink: 1 Color-Black

Do not remove back sheet of this portion to prevent from sticking completely as shown in image.
2016
NON-CE 4 Post Lifts
Colors & Graphics

MODELS:
HD-9SW   HDS-40
HD-9SWX   HDS-40X
HD-14T   HD-9AE

12/31/15

CONFIDENTIAL INFORMATION.
You may not disclose, print, copy or disseminate this information.
Unauthorized use is a violation of federal criminal law.
4 Post Lifts Product Decal Positioning

**A**

BPK Post Branding Decal-Large_5905311.pdf:
- Material: 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
- Lamination: Clear-gloss over-laminate for abrasion, chemical, and ultra violet protection

**B**

4 Post Safety Decal.pdf:
- Material: White Vinyl Pressure Sensitive Adhesive
- Size: 4"W x 23"H
- Ink: U.V. protected CMYK 2/C Process
- 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

**C**

Total of 4
PN 5905311

PN 5905556

(Order Labels from ALI)
4 Post Lifts Product Decal Positioning

**DEP jenis ON LIFT MODEL AND CAPACITY**

*Max. Cap. Danger.pdf:
- 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

*NRTL_Lifting_Cap_Label_.pdf:
- Size: 4.5"W x 3.25"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

1. Engineering Specification
   - Application: LIFT CAPACITY STICKER FOR CE LIFTS
   - Detailed Description:
     - SIZE: 3.25" L x 4.5" W (82mm x 114mm)

2. Vendor Information
   - Approved Vendor Vendor Part # Contact # Preferred Vendor
     - 1)

PRODUCT SPECIFICATION FORM

**FOR ALI APPROVED LIFTS ONLY**

**2015 Serial_Tag-C-5905952.jpg:**
- Size: 3"W x 3"H
- Material: Material: 2 Mil. Matte Silver Polyester (Flex-PSE)
- Print using thermal transfer printer with resin ribbon
- Ink: 1 Color-Black
4 Post Lifts Product Decal Positioning

**FOR ALL APPROVED LIFTS ONLY**

- **A** (Front & Back of post)
- **B** Side of Post
- **C** Back of Post (Top to Bottom)
- **D, H, G, F** Front of Post (Top to Bottom)
4 Post Lifts Packaging

Model Number

Serial Number

Peel Off Inventory Label

Model Number

Serial Number

Do not remove back sheet of this portion to prevent from sticking completely as shown in image.

Serial_Tag_New-2015_Peel_Off-5905285.jpg:
Size: 3"W x 3"H
Material: 2 Mil. Matte Silver Polyester (Flex-PSE)
Print using thermal transfer printer with resin ribbon
Ink: 1 Color-Black
HDS 27 X Packaging Report

March 15, 2011
Place the off side ramp on the shipping angles and wrap it in cardboard.

Place one cross tube on one side of the ramp.
Stack both cross tubes and strap them together.
Place two posts in front of the cross tubes as shown.
Two posts will sit in front of the cross tubes.

Start placing the safety ladders on the posts. Make sure they are wrapped sufficiently.
Put all four safety ladders on top of the posts.
Strap the ladders, posts, and cross tubes to the off side ramp.

Place the other posts on the opposite side of the ramp.
Wrap the two posts in cardboard.
Place the tire stops and top plates inside of the posts.
Make sure both posts are wrapped properly.
Set the approach ramps on top of the posts.

Strap the posts and approach ramps together to the off side ramp.
The parts box will sit in the middle of the ramp.
This will be the final assembly. Wrap the entire lift in cardboard and plastic.
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REV</th>
</tr>
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<tbody>
<tr>
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<td>2</td>
<td>5600879</td>
<td>HDS-18/27 OFFSIDE SHIPPING ANGLE</td>
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<td>5530076</td>
<td>HHB M12 x 1.75 x 35mm</td>
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<td>4</td>
<td>5525125</td>
<td>HHB M12 x 1.75 x 50</td>
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<td>5</td>
<td>5535354</td>
<td>NUT M12 x 1.75</td>
<td>18</td>
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<tr>
<td>6</td>
<td>5545347</td>
<td>WASHER, M12 FLAT WASHER</td>
<td>18</td>
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<tr>
<td>7</td>
<td>5545201</td>
<td>WASHER, M12 SPRING LOCK</td>
<td>19</td>
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</table>

**NOTE:** UNLESS OTHERWISE SPECIFIED.

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
### PART SPECIFICATION FORM

**BENDPAK Number:** 5530076  
**MRP Description:** HHB M12 x 1.75 x 35  
**Date:** 10/07/2009  
**Revision:** B  
**ECO:** 00300

---

#### 1. Engineering Specification

<table>
<thead>
<tr>
<th>Application:</th>
<th>HEX HEAD BOLT</th>
</tr>
</thead>
</table>

**Detailed Description:**

- **Head Style:** Standard Hex  
- **Material Type:** Steel  
- **Finish:** Zinc-Plated  
- **System of Measurement:** Metric  
- **Metric Thread Size:** M12  
- **Metric Thread Pitch:** 1.75 mm  
- **Length:** 35 mm  
- **Head Width:** 19 mm  
- **Head Height:** 7.5 mm  
- **Thread Length:** Fully Threaded  
- **Thread Fit:** Class 6h  
- **Thread Direction:** Right Handed  
- **Class/Grade:** CLASS 4.8/GRADE 2 OR BETTER

---

#### 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) McMaster-Carr</td>
<td>91280A718</td>
<td>404-629-6500</td>
<td>YES</td>
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<td>2)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3)</td>
<td></td>
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</tbody>
</table>
1. Engineering Specification

**Application:**
HEX HEAD BOLT

**Detailed Description:**
- Head Style: Standard Hex
- Material Type: Steel
- Finish: Zinc-Plated
- Grade/Class: Class 4.8 or greater
- System of Measurement: Metric
- Metric Thread Size: M12
- Metric Thread Pitch: 1.75 mm
- Length: 50 mm
- Head Width: 19 mm
- Head Height: 7.5 mm
- Thread Length: Fully Threaded
- Thread Fit: Class 6h
- Thread Direction: Right Handed
- Self-Locking Method: None

2. Vendor Information

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

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<tr>
<td>MRP Description:</td>
<td>WASHER M12 x 21mm SL</td>
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<tr>
<td>Date:</td>
<td>02/12/2008</td>
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<td>Revision:</td>
<td>A</td>
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<td>ECO :</td>
<td>00147</td>
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1. Engineering Specification

**Application:**
GENERAL FASTENER

**Detailed Description:**
SPLIT LOCK WASHER
FOR USE WITH 12mm BOLT
21mm OD
ZINC PLATED

2. Vendor Information

<table>
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<td>1) McMaster Carr</td>
<td>91202A246</td>
<td>330 342 6100</td>
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2) 
3)
NOTE: UNLESS OTHERWISE SPECIFIED.

1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINTING NOT REQUIRED

<table>
<thead>
<tr>
<th>ITEM NO.</th>
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DIMENSIONS ARE IN MM
TOLERANCES:
0.0 = ±1.5
0.00 = ±0.5
ANGULAR: 0.0° = ±2°

SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES
UNLESS OTHERWISE SPECIFIED
NOTE: UNLESS OTHERWISE SPECIFIED.
1. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
2. REMOVE ALL WELD SPLATTER
3. PAINTING NOT REQUIRED

ITEM | PART NUMBER | DESCRIPTION | QTY | REV
--- | ----------- | ----------- | ---- | ----
1 | 5781029 | HDS-18/27 SHIPPING ANGLE, BOTTOM ANGLE | 1 | A
2 | 5781021 | HDS-18/27 OFFSIDE SHIPPING ANGLE, SIDE ANGLE RH | 1 | A
3 | 5781022 | HDS-18/27 OFFSIDE SHIPPING ANGLE, TOP SIDE ANGLE LH | 1 | A
4 | 5781023 | HDS-18/27 OFFSIDE SHIPPING ANGLE, TOP ANGLE RH | 1 | A
5 | 5781024 | HDS-18/27 OFFSIDE SHIPPING ANGLE SIDE ARM RH | 1 | A
6 | 5781030 | HDS-18/27 SHIPPING ANGLE, MID ANGLE | 1 | A
7 | 5781020 | HDS-18/27 OFFSIDE SHIPPING ANGLE TOP ANGLE LH | 1 | A

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

BREAK AND DEBURR ALL SHARP EDGES 0.3mm
REMOVE ALL WELD SPLATTER
PAINTING NOT REQUIRED