# Service Manual

**SERVICE PARTS & DIAGRAMS** 

## **BENDPAK**

# **RBJ18000**

PRODUCT SKU **5175032** 

DRAWING Nº

5260279

**CATEGORY** 

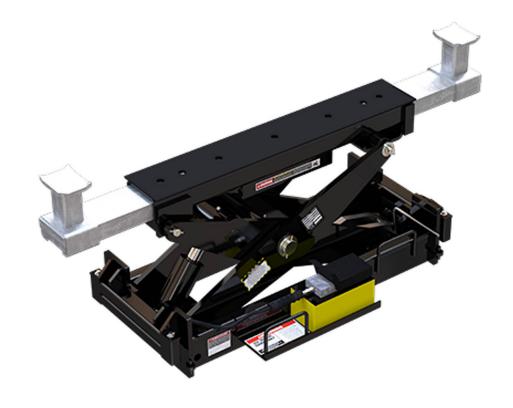
**Rolling Bridge Jack** 

REV

**Version V** 

DATE

12.15.2022



## BendPak.

This guide is a troubleshooting reference used for maintaining and servicing your Bend Pak product. It provides comprehensive information on identifying serviceable parts and components and assists in troubleshooting problems and performing assembly /disassembly procedures.

#### BendPak, Inc. Corporate Office

1645 Lemonwood Drive Santa Paula, CA 93060 USA Toll Free US/Canada: 1-800-253-2363 Fax: 1-805-933-9160 info@bendpak.com

#### **Customer Service Desk / Warranty**

Customer Service Representatives
Office Tel: 1-805-933-9970
Toll Free US/Canada: 1-800-253-2363
Fax: 1-805-933-9160
customerservice@bendpak.com

#### **Parts Orders**

Customer Service Representatives Office Tel: 1-805-933-9970 Toll Free US/Canada: 1-800-253-2363 Fax: 1-805-933-9160 parts@bendpak.com

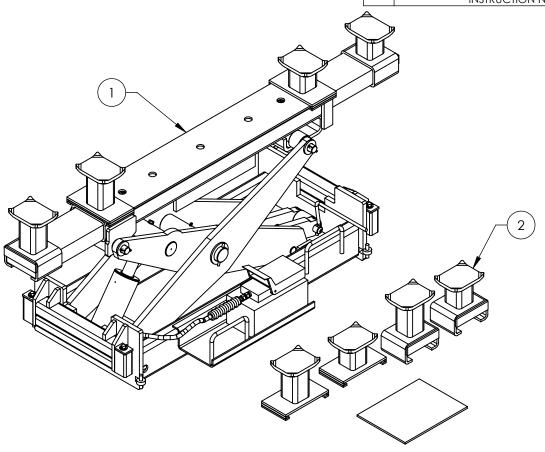
#### **Domestic Sales & Service**

USA Sales Representatives Office Tel: 1-805-933-9970 Toll Free US/Canada: 1-800-253-2363 Fax: 1-805-933-9160 sales@bendpak.com

#### **International Sales & Service**

Office Tel: 1-805-933-9970 Exports Dept: 1-805-933-9970 EXT. 192 Ext. Toll Free US/Canada: 1-800-253-2363 Fax: 1-805-933-9160 bpkexports@bendpak.com

	REVISION			
REV	DESCRIPTION	DATE	EDITED BY	ECO#
T	UPDATED BOM REVISION	11/06/2020	CA	01230
U	ADDED 5905775 AND 5906044	09/02/2021	CA	01322
<b>&gt;</b>	REPLACED LABELS WITH COLORS & GRAPHICS NOTE, REPLACED 5940056 WITH PACKAGING INSTRUCTION NOTE	09/29/2021	CA	01348



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

- 1. REFER TO MODEL FOR ADDITIONAL INFORMATION
- 2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- 3. SEE COLORS & GRAPHICS FOR LABEL PLACEMENT
- 4. APPLY LIQUID THREAD SEALANT TO FITTINGS PRIOR TO ASSEMBLY.
  SEE BP SPECIFICATION FORM 5580012

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5205006	RBJ18000/25000 LIFT SUPERSTRUCTURE	1	М
2	5250117	RBJ18000/25000 PARTS BOX	1	G
-	5900004	rbj series manual	1	

DATE

DRAWN TM 01/07/2016

CHECKED OR 10/01/2021

THIRD ANGLE PROJECTION

SIZE

DO NOT SCALE DRAWING

RBJ18000 PRODUCTION
LIFT VER C
SIZE DWG. NO. RE

SIZE

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONFIDENTIAL IN THIS DRAWING IS

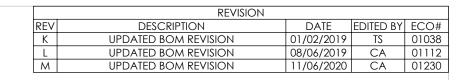
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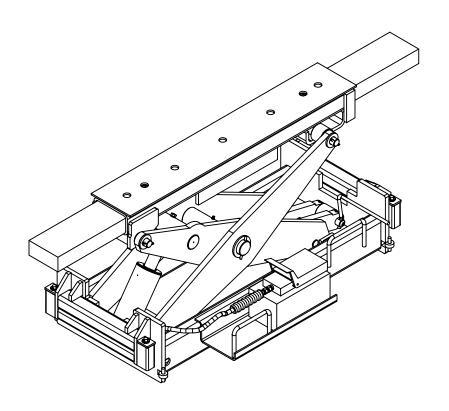
NAME

DWG. NO. REV V

1645 LEMONWOOD DR. SANTA PAULA, CA 93060

SCALE: 1:12 SHEET 1 OF 2





WHERE USED
RBJ18000
RBJ25000

**/**4.\

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

- 1. REFER TO MODEL FOR ADDITIONAL INFORMATION
- 2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- 3. ASSEMBLE ITEMS AS SHOWN

AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE
INCLUDED BOLTS

NEXT ASSEMBLY
5260279
5260544

ITEM NO.	PART NUMBER			REV
1	5600355	RBJ BASE WELDMENT	1	F
2	5215180	RBJ18000/25000 SCISSOR ASSEMBLY	1	J
3	5215456	RBJ18000/25000 UPPER EXTENSION ARM ASSEMBLY	1	С
4	5502167	CYLINDER ASSEMBLY Ø3.0 x 4.5	1	F
5	5745057	RBJ18000/25000 CYLINDER PIVOT PIN	1	В
6	5746628	RJ/RBJ18000/25000 SMALL UPPER PIVOT SHAFT	1	С
7	5746094	RJ/RBJ8000/25000 LONG UPPER PIVOT SHAFT	1	С
8	5755118	RJ/RBJ18000/25000 LONG UPPER TUBE SPACER	1	D
9	5746629	RJ/RBJ18000/25000 SPACER	2	С
10	5746155	RBJ15000/18000/25000 SAFETY PIN	1	В
11	5300913	RBJ15000/18000/25000 SAFETY	2	В
12	5300871	RBJ15000/18000/25000 SAFETY HANDLE	1	С
13	5210219	RBJ45000 BYB/15000/18000/25000 RAIL ROLLER ASSEMBLY	4	D
14	5570806	RJW SERIES HOSE ASSY Ø6.4mm x 600mm DS	1	Е
15	5736508	RJ/RBJ18000/25000 RETAINING WASHER	4	С
16	5505106	SPRING PIN M6 x 50	4	-
17	5545130	WASHER 3/8" SL	1	-
18	5530133	HHB 3/8"-16 x 3" GR8/CL 10.9	1	-
19	5530054	SSS M10x1.5x12	5	-
20	5585736	AIR HYDRAULIC PUMP YELLOW RBJ18000/25000 PSI:9700	1	-
21	5550086	FTG ELB -04 NPT x -04 JIC	1	-
22	5550493	FTG RST -04 JIC x -06 NPT x .062 ID	1	-
23	5545347	WASHER, M12 FLAT WASHER	4	-
24	5540027	COMPRESSION SPRING 22 x 50mm	4	Α
25	5505006	COTTER PIN Ø3.2 x 20mm	4	-

 DO NOT SCALE DRAWING
 NAME
 DATE

 DRAWN
 TM
 11/17/2015

 CHECKED
 OR
 11/12/2020



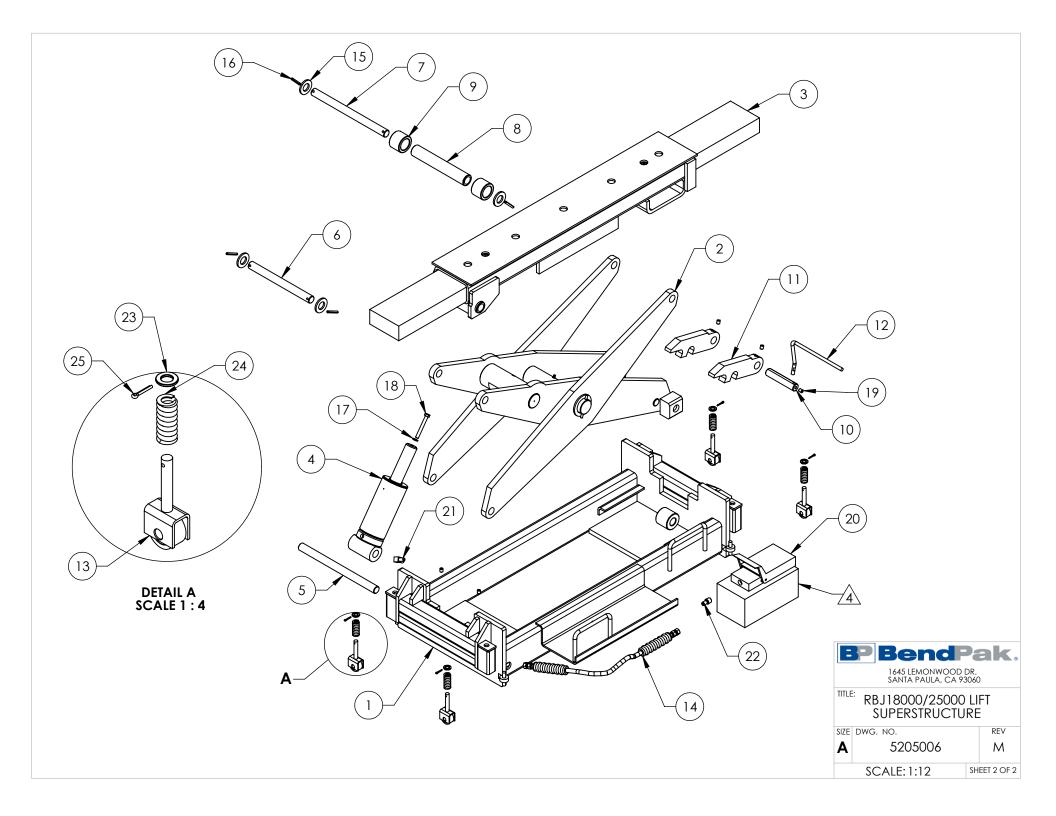
DIMENSIONS ARE IN MM THIRD ANGLE PROJECTION TITLE:



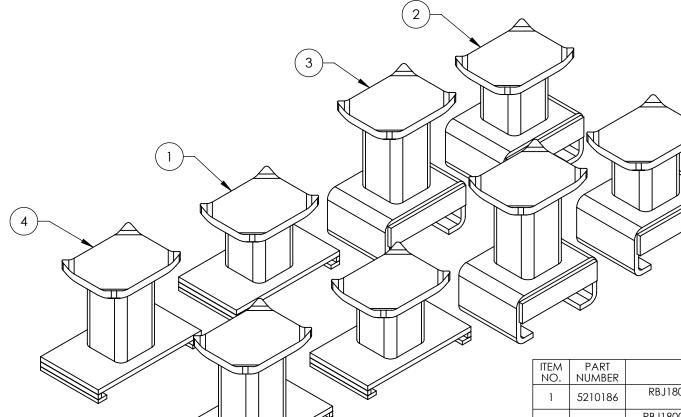
RBJ18000/25000 LIFT SUPERSTRUCTURE

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS
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REPRODUCTION IN PART OR AS A WHOLE WITHOUT
THE WRITEN FERMISSION OF BENDFAK INC. IS

SIZE DWG. NO. REV M 5205006 M SCALE: 1:12 SHEET 1 OF 2



	REVISION			
REV	DESCRIPTION	DATE	EDITED BY	ECO#
Е	REMOVED 5745054, REPLACED (1) 5210423 WITH 5210186, REPLACED (1) 5210423 WITH 5210187, REPLACED (1) 5210424 WITH 5210188, REPLACED (1) 5210424 WITH 5210189, UPDATED TITLE TO REFLECT MARKETING, UPDATEDNEXT ASSEMBLIES	11/17/2015	TM	00739
F	ADDED 5580012	02/25/2020	CA	01146
G	REMOVED 5580012	09/30/2020	TM	01213



**DESCRIPTION** QTY. REV RBJ18000/25000 TOP TUBE RAIL SHORT HEIGHT Α ADAPTER WELDMENT RBJ18000/25000 EXTENSION ARM SHORT HEIGHT 2 5210187 ADAPTER WELDMENT RBJ18000/25000 EXTENSION ARM LONG HEIGHT 3 5210189 2 Α ADAPTER WELDMENT RBJ18000/25000 TOP TUBE RAIL LONG HEIGHT 5210188 2 ADAPTER WELDMENT

DO NOT SCALE DRAWING NAME DATE

DRAWN AC 01/05/2010

DIMENSIONS ARE IN MM

CHECKED OR 10/02/2020
THIRD ANGLE PROJECTION TITLE:



1645 LEMONWOOD DR. SANTA PAULA, CA 93060

E: RBJ18000/25000

PARTS BOX

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THE WITTEN PERMISSION OF BENDPAK INC.
THE WITTEN PERMISSION OF BENDPAK INC.

A

CONTROL

THE WITTEN PERMISSION OF BENDPAK INC.

SIZE DWG. NO. REV
5250117 G

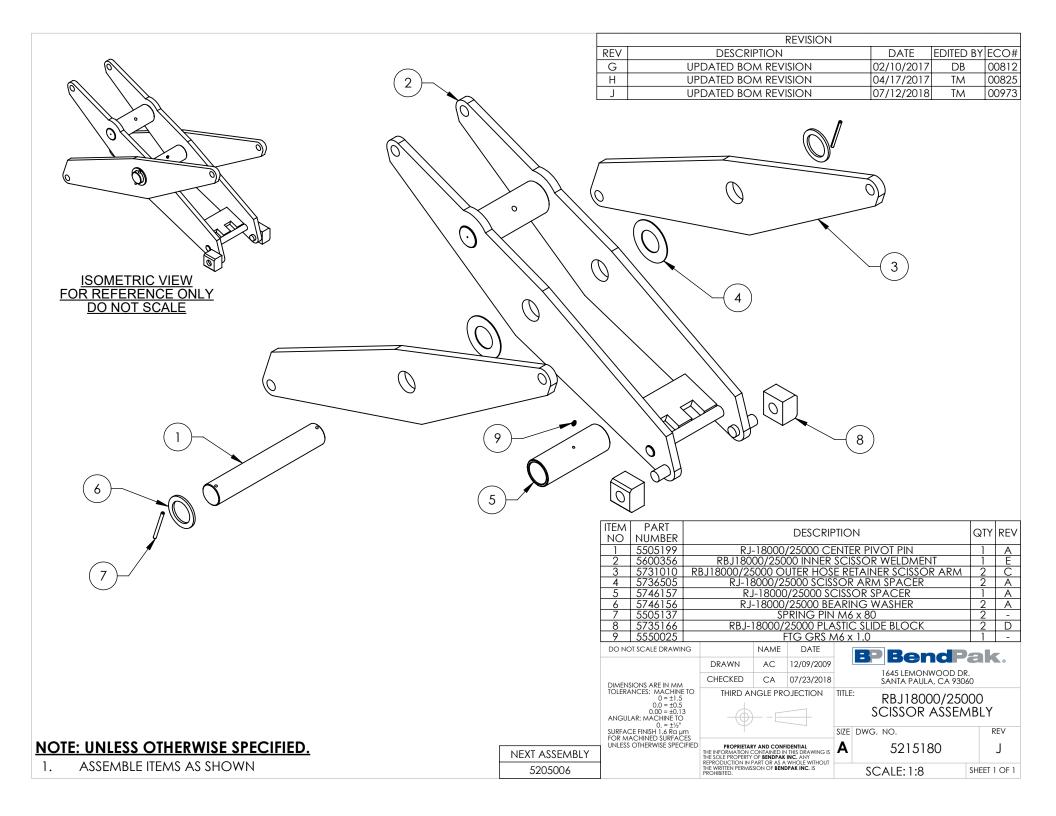
SCALE: 1:5 SHEET 1 OF 1

WHERE USED RBJ18000 RBJ25000

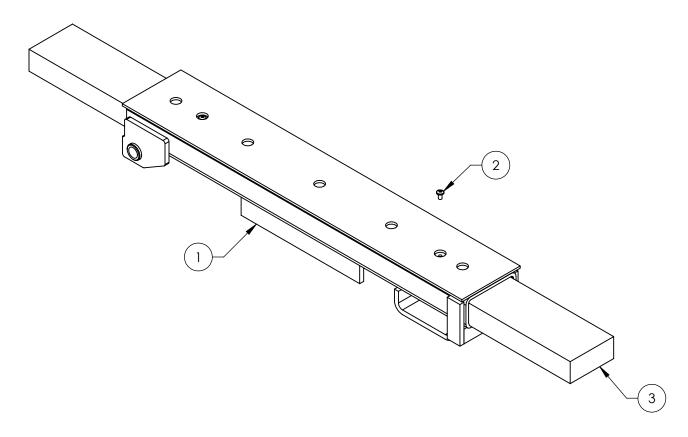
### **NOTE: UNLESS OTHERWISE SPECIFIED.**

. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

NEXT ASSEMBLY 5260279 5260544



	REVISION			
REV	DESCRIPTION	DATE	EDITED BY	ECO#
Α	PRODUCTION RELEASE, DERIVED FROM 5215334	11/17/2015	TM	00739
В	REPLACED 5530284 WITH 5530789	12/01/2016	TM	00791
$\Box$	UPDATED BOM REVISION	04/17/2017	TM	00825



ITEM NO	PART NUMBER			[	DESCRIPT	ION	QTY	REV
1	5601066	RBJ18000/25000 UPPER ARM RECEIVER TUBE WELDMENT			1	В		
2	5530789		BHSK M8 x 1.25 x 14			2		
3	3 5601067 RBJ18000/25000 UPPER ARM WELDMENT			2	В			
DO NOT SCALE DRAWING		WING		NAME	DATE	PP BondBs	N/c	

			0,		
	DRAWN	TM	11/17/2015		
	CHECKED	DB	05/03/2017		
DIMENSIONS ARE IN MM	THIRD AN	NGLE PRO	DJECTION	TITLE:	ı
				EX	′
(C)	Т			SIZE	[
	PROPRIETAR THE INFORMATION C THE SOLE PROPERTY REPRODUCTION IN F	OF BENDPAK	THIS DRAWING IS INC. ANY	Α	
	THE WRITTEN PERMIS: PROHIBITED.				

RBJ18000/25000 UPPER EXTENSION ARM ASSEMBLY REV

BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060

SIZE DWG. NO. 5215456

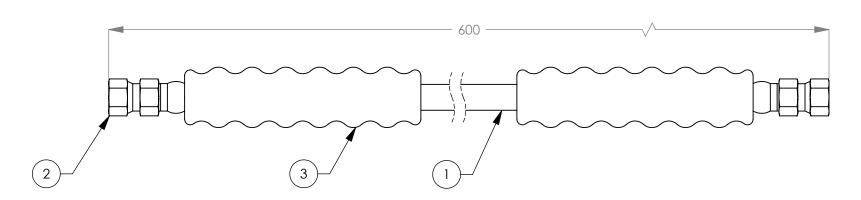
SCALE: 1:8

С SHEET 1 OF 1

## NOTE: UNLESS OTHERWISE SPECIFIED. 1. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY 5205006

	REVISION			
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C C-001	UPDATED 5570171 TO SHOW ROUTING UPDATED NEXT ASSEMBLIES	03/17/2015 08/21/2015		00692 00719
D	UPDATED TITLE AND NEXT ASSEMBLIES	02/29/2016	CA	00739
Е	UPDATED TITLE TO REFLECT MARKETING, UPDATED NEXT ASSEMBLIES	12/28/2018	TS	01038



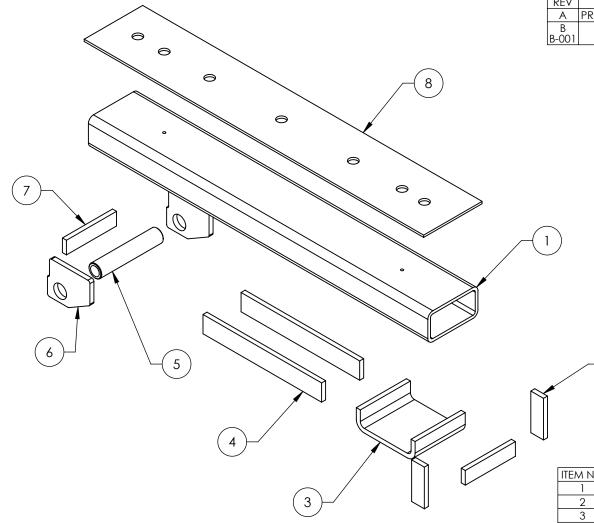
WHERE USED
RJ-45LP
RJ45W
RJ7W
RJ9W
RBJ7000A
RBJ4500 BYB
RBJ15000
RBJ18000
RBJ25000

2 5550325 FTG NPL Ø1/4 CRIMP x -04 JIC 2	REV	QIY	IIEM NO PARI NUMBER	TIEW NO
	า* -	534mm*	1 5570171	1
2 5570027 HOSE BEND DESTRICTOR	-	2	2 5550325	2
5   3370037   HOSE BEIND RESTRICTOR Z	-	2	3 5570037	3

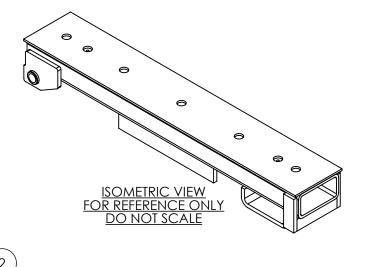
## **NOTE: UNLESS OTHERWISE SPECIFIED.**

- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- 2. 3. 4.
- LENGTH SHOWN IS AFTER SWAGING
  ITEM 1 QTY FOR REFERENCE ONLY
  10,000 PSI / 700 BAR WORKING PRESSURE
- 5. 40,000 PSI / 2800 BAR MIN. BURST PRESSURE

NEXT ASSEMBLY	DO NOT SCALE DRAWING		NAME	DATE		<b>P</b> BendP			
5205005		DRAWN	AC	01/16/2010					
5205006		CHECKED	CA	04/24/2019		1645 LEMONWOOD DR SANTA PAULA, CA 9306			
5205007	DIMENSIONS ARE IN MM	THIRD AT	IGI F PRO	DJFCTION					
5205008	TOLERANCES: 0. = ±1.5				TITLE: RJW SERIES HOSE AS				
5205009	$0.0 = \pm 0.5$	SIZE DWG NO		Ø6.4mm x 600mr	m DS				
5205010	SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES			SIZE	DWG. NO.	REV			
5205011	UNLESS OTHERWISE SPECIFIED		Y AND CONF		Α	5570806	F		
5205012		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BEINDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		THE SOLE PROPERTY OF BENDPAK INC. ANY		INC. ANY	$\overline{}$	3370000	
5205013					SCALE: 1:2	SHEET 1 OF 1			



	REVISION						
REV	DESCRIPTION	DATE	<b>EDITED BY</b>	ECO#			
Α	PRODUCTION RELEASE, DERIVED FROM 5600357	11/16/2015	TM	00739			
В	UPDATED BOM REVISION	12/01/2016	TM	00791			
B-001	ADDED 20% GLOSS PAINT NOTE	02/21/2020	CA	01146			



ITEM NO	PART NUMBER	DESCRIPTION		REV
1	5766118	RBJ18000/25000 ARM RECEIVER TUBE	1	О
2	5735204	RBJ18000/25000 UPPER TUBE SLIDE PLATE	2	В
3	5700184	RBJ18000/25000 UPPER SCISSOR CHANNEL	1	В
4	5735207	RBJ18000/25000 ARM RECEIVER SUPPORT	2	В
5	5755117	RBJ18000/25000 SHORT UPPER TUBE SPACER	1	В
6	5731219	RBJ18000/25000 ARM RECEIVER EAR	2	В
7	5735206	RBJ18000/25000 UPPER TUBE SUPPORT	2	В
8	5736951	RBJ18000/25000 HEIGHT ADAPTER TUBE RAIL	1	Α

DATE

DO NOT SCALE DRAWING NAME DRAWN CHECKED DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5

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

TM 11/16/2015 OR 03/04/2020 THIRD ANGLE PROJECTION

RBJ18000/25000 UPPER ARM RECEIVER TUBE WELDMENT SIZE DWG. NO.

1645 LEMONWOOD DR. SANTA PAULA, CA 93060

5601066

В

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MASK BORES AND THREADS BEFORE WELDING AND PAINTING DIMENSIONS SHOWN ARE AFTER PAINTING

REFER TO MODEL FOR ADDITIONAL INFORMATION

BREAK AND DEBURR ALL SHARP EDGES 0.3mm

5. PAINT BENDPAK BLACK (RAL-9017) 20% GLOSS

NOTE: UNLESS OTHERWISE SPECIFIED.

REMOVE ALL WELD SPLATTER

WHERE USED RJ-45LP

2.

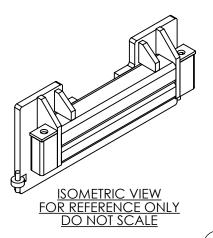
3.

4.

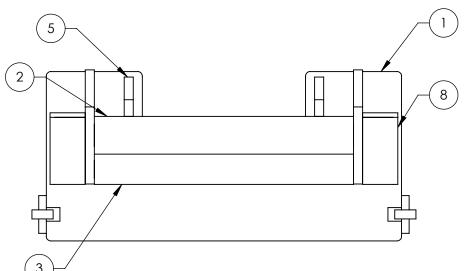
NEXT ASSEMBLY 5215456

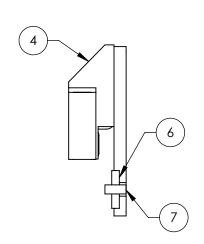
SCALE: 1:8 SHEET 1 OF 2

BendPak.



	REVISION						
REV	DESCRIPTION	DATE	EDITED BY	ECO#			
В	WAS 73 NOW 82, UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS	01/15/2016	TM	00739			
С	WAS 82 NOW 74.7, REPLACED 5620347 WITH 5620416, UPDATED BOM REVISION	03/24/2016	TM	00756			
D	WAS 25 PL NOW 10 PL, WAS 74.7 NOW 60, UPDATED BOM REVISION	08/06/2019	CA	01112			





ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5731218	RBJ BASE SIDE COVER	1	С
2	5766117	RBJ18000/25000 BASE SLIDE TUBE	1	В
3	5766114	RBJ18000/25000 BASE ARM TUBE	1	В
4	5731213	RJ-18000/25000 EXTENSION TUBE COVER	2	Α
5	5731214	RBJ18000/25000 ARM EXTENSION TUBE GUSSET	2	В
6	5745056	RBJ18000/25000 CENTRALIZER ROLLER PIN	2	В
7	5746625	RBJ18000/25000 CENTRALIZER ROLLER	2	В
8	5620416	RBJ9000/15000/ 18000/25000 RAIL ROLLER CHANNEL WELDMENT	2	Α

DATE

08/20/19

WHERE USED
RBJ18000
RBJ25000

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

- BREAK AND DEBURR ALL SHARP EDGES 0.3mm
- 2. REMOVE ALL WELD SPLATTER
- 3. 5746625 MUST TURN FREELY

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

DRAWN

CHECKED

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PROHIBITED.

NAME

AC

CA

BP BendPak. 01/13/2010 1645 LEMONWOOD DR. SANTA PAULA, CA 93060

**RBJ BASE SLIDE SUBWELDMENT** 

SIZE DWG. NO. 5620172 **SCALE: 1:5** 

D SHEET 1 OF 3

REV

NEXT ASSEMBLY 5600355



#### PART SPECIFICATION FORM STANDARD

BENDPAK Number:	5900004
MRP Description:	RBJ SERIES MANUAL
Date:	10/27/2020
ECO:	

#### 1. Engineering Specification

#### **Application:**

**INSTALLATION MANUAL** 

#### **Detailed Description:**

#### **Print Settings for BendPak Manuals**

Unless otherwise specified, use these settings for printing BendPak manuals:

- Color: Black and white.
- Size: A4 (210 to 297 mm), 8.5 by 11 inches (216 to 279 mm), or between
- Binding: Saddle stitched
- Paper: 100 to 120 gsm (27 to 32 pound), uncoated



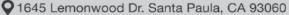
2. Vendor Information (Or for Reference)						
Approved Vendor	Vendor Part #	Contact #	Preferred Vendor			
1)						
OR BENDPAK ENGINEERING APPROVED EQUIVALENT						







info@bendpak.com















## **RBJ Series (15, 18, 25) Product Decal Positioning**





SERVICE REQUIREMENT
EVERY 30-DAYS
Keep entire jack and pump unit clean and free
of debris. Lubricate both sides of all moving

purpose lithium based grease, penetrating oil or 90-wt gear oil. Use enough lubrication to properly maintain all moving parts, but avoid over application. Apply silicone lubricant to smaller items such as handles and look hinges. Alway promotily remove excess grease and debris from ack unit and pump unit. If you choose to have his equipment serviced by a service technician, always perform a personal inspection of all points to be sure nothing was overlooked. Warranty will be void on this equipment if service maintenance is not performed on a regular basis.



PN 5905552

#### Rolling\_Jack\_Service\_Warning\_Decal.pdf:

Size: 11"W x 1"H

Material: White Vinyl Pressure Sensitive Adhesive

Thickness: 4 Mil

Ink: U.V. protected CMYK 4/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



### **AWARNING**

## IMPROPER USE OF THIS ROLLING JACK MAY RESULT IN SERIOUS BODILY HARM!

Always ensure that this rolling jack is positioned correctly on the runway rail assembly BEFORE raising the lift or working on or near the vehicle. KEEP HANDS CLEAR of all pinch points. NEVER use lift adapters other than those specifically designed for this jack.

5905190

PN 5905190

#### Warning\_Improper\_Use\_Label.pdf:

Size: 4"W x 2.5"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

## C

## **AWARNING**

## USE DRY AIR SOURCE ONLY

Warranty will be void on this equipment if water contamination is found apparent. <u>ALWAYS</u> drain air compressor tank daily or use in-line dryer.

SERVICE PARTS AND LABOR NOT COVERED UNDER WARRANTY IF RUST OR CORROSION IS PRESENT. The pump unit on this jack was not designed to be used as a load holding device, jack must be raised to a locked position at all times. The manufacturer recommends installing an automatic air line oiler in the air inlet line as close to the pumping unit as possible. Air pressure must be regulated to 125 P.S.I MAX. Pump unit must be kept clean to prevent contamination and pressure loss.

PN 5905156

#### Warning\_Dry\_Air\_Label.pdf:

Size: 7"W x 3.5"H

Material: White Vinyl Pressure Sensitive Adhesive

Thickness: 4 Mil

Ink: U.V. protected CMYK 2/C Process

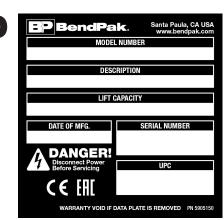
Finish: Polished

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



2017\_Serial\_Tag-E-5905150.pdf:

PN 5905150

Size: 3"W x 3"H

Material: 2 Mil. Gloss polyester thermal transfer label with a high performance permanent acrylic

Ink: 1 Color-Black