

Service Manual

SERVICE PARTS & DIAGRAMS

BENDPAK

RBJ15000

PRODUCT SKU
5175031

DRAWING Nº
5260545

CATEGORY
Rolling Bridge Jack

REV
Version W

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

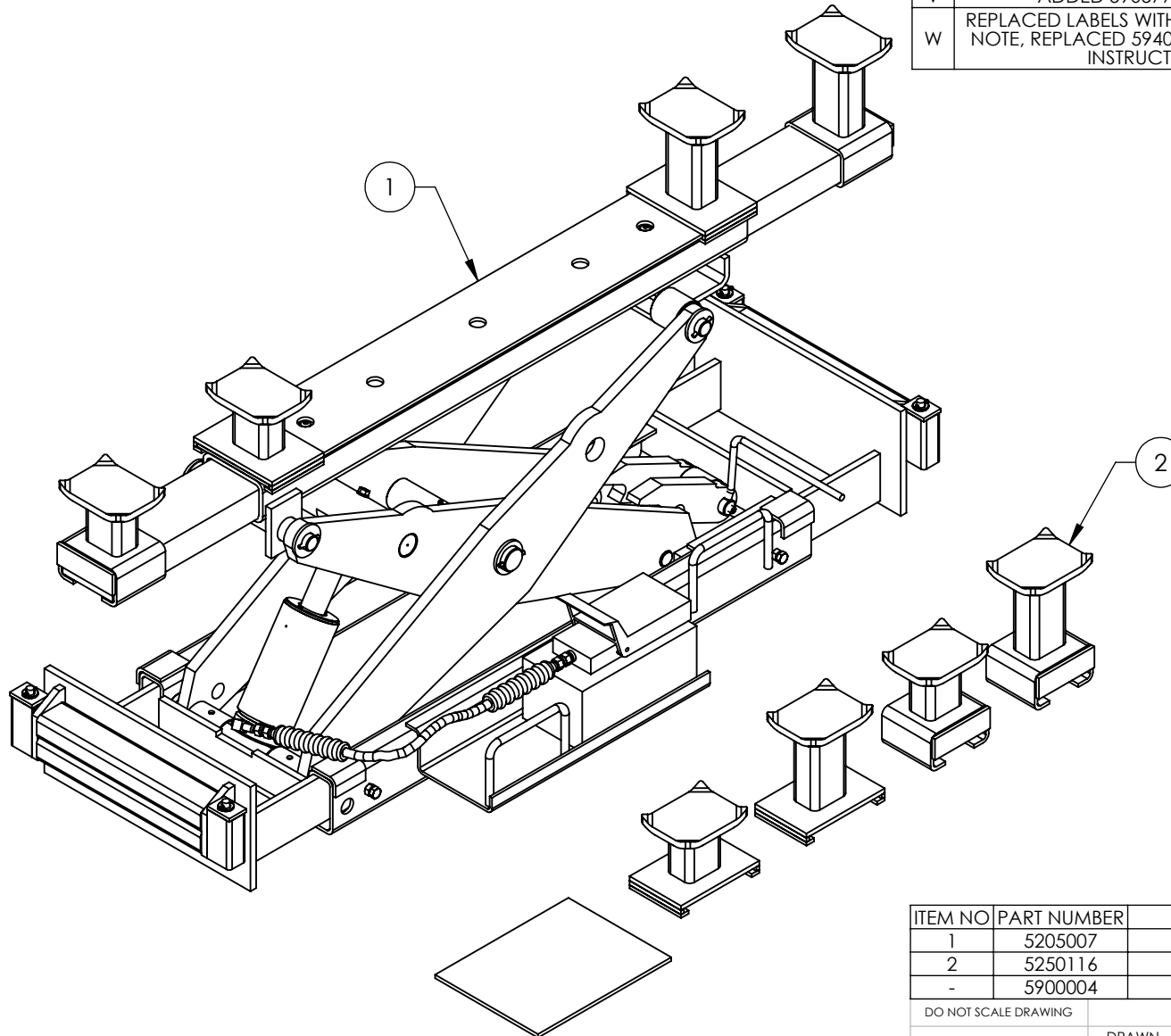
Domestic Sales & Service

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#
U	UPDATED BOM REVISION	11/06/2020	CA	01230
V	ADDED 5905775 AND 5906044	09/03/2021	CA	01322
W	REPLACED LABELS WITH COLORS & GRAPHICS NOTE, REPLACED 5940055 WITH PACKAGING INSTRUCTION NOTE	09/29/2021	CA	01348

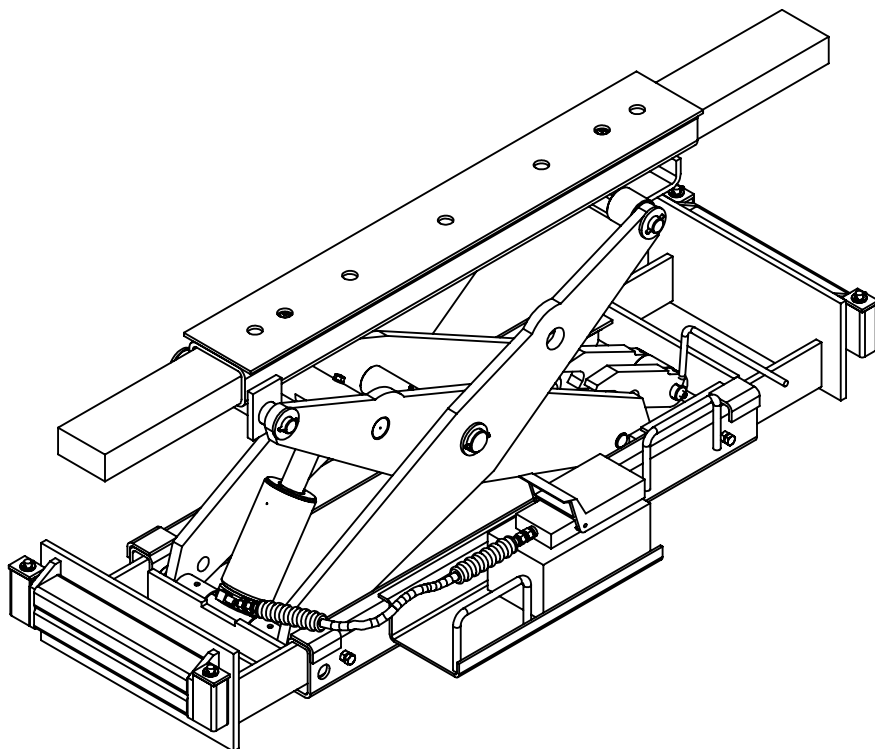


NOTE: UNLESS OTHERWISE SPECIFIED.

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	5205007	RBJ15000 LIFT SUPERSTRUCTURE	1	N
2	5250116	RBJ15000 PARTS BOX	1	H
-	5900004	RBJ SERIES MANUAL	1	--

DO NOT SCALE DRAWING		NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	11/19/2015	
CHECKED		OR	10/01/2021	
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE:
 <small>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.</small>		RBJ15000 PRODUCTION LIFT VER C		
		SIZE	DWG. NO.	REV
		A	5260545	W
SCALE: 1:10			SHEET 1 OF 2	



WHERE USED

RBJ15000

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
5260545

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
L	REPLACED 5530738 WITH 5530302, 5535013 WITH 5535998, UPDATED BOM REVISION	09/14/2018	TS	00997
M	UPDATED BOM REVISION	12/18/2018	TS	01038
N	UPDATED BOM REVISION	11/06/2020	CA	01230

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600363	RBJ15000 BASE WELDMENT	1	E
2	5215181	RBJ15000 SCISSOR ASSEMBLY	1	J
3	5210409	RBJ15000 CYLINDER PIVOT PIN	1	B
4	5502016	CYLINDER ASSEMBLY Ø3.0 x 4.375, EXTENDED ROD	1	E
5	5746105	RBJ15000 UPPER ROLLER SHAFT	1	B
6	5300913	RBJ15000/18000/25000 SAFETY	2	B
7	5300871	RBJ15000/18000/25000 SAFETY HANDLE	1	C
8	5746155	RBJ15000/18000/25000 SAFETY PIN	1	B
9	5716102	RJ/RBJ15000 LONG UPPER TUBE SPACER	1	C
10	5505102	RJ/RBJ15000 UPPER ARM PIVOT PIN	1	C
11	5716101	RJ/RBJ15000 SPACER	2	C
12	5210181	RBJ15000 TOP EXTENSION ASSEMBLY	1	C
13	5210217	RBJ15000 ARM EXTENSION ASSEMBLY	2	E
14	5570806	RJW SERIES HOSE ASSY Ø6.4mm x 600mm DS	1	E
15	5746154	RBJ15000 BEARING WASHER	4	B
16	5505136	SPRING PIN M5 x 40	4	-
17	5530302	HHB M10 x 1.5 x 40 FULLY THREAD	4	-
18	5535998	NUT M10 x 1.5	4	-
19	5530191	HHB 3/8"-16 x 2-3/4" GR8/CL 10.9	1	-
20	5545130	WASHER 3/8" SL	1	-
21	5530054	SSS M10x1.5x12	5	-
22	5585735	AIR HYDRAULIC PUMP YELLOW RBJ15000 PSI:8500	1	-
23	5550086	FTG ELB -04 NPT x -04 JIC	1	-
24	5550493	FTG RST -04 JIC x -06 NPT x .062 ID	1	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	11/19/2015
CHECKED OR	11/12/2020

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.

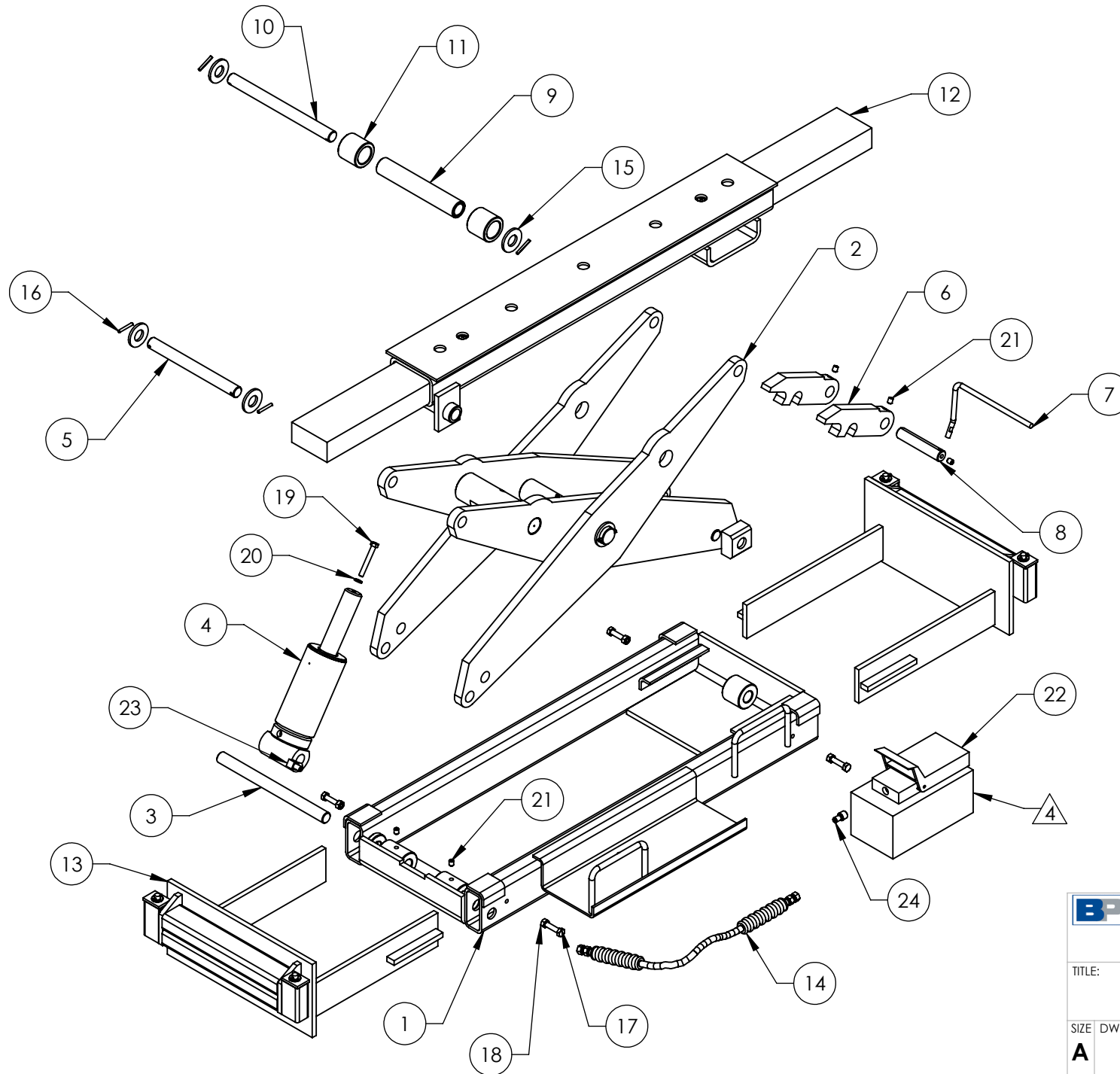



TITLE: RBJ15000 LIFT
SUPERSTRUCTURE

SIZE DWG. NO. REV
A 5205007 N

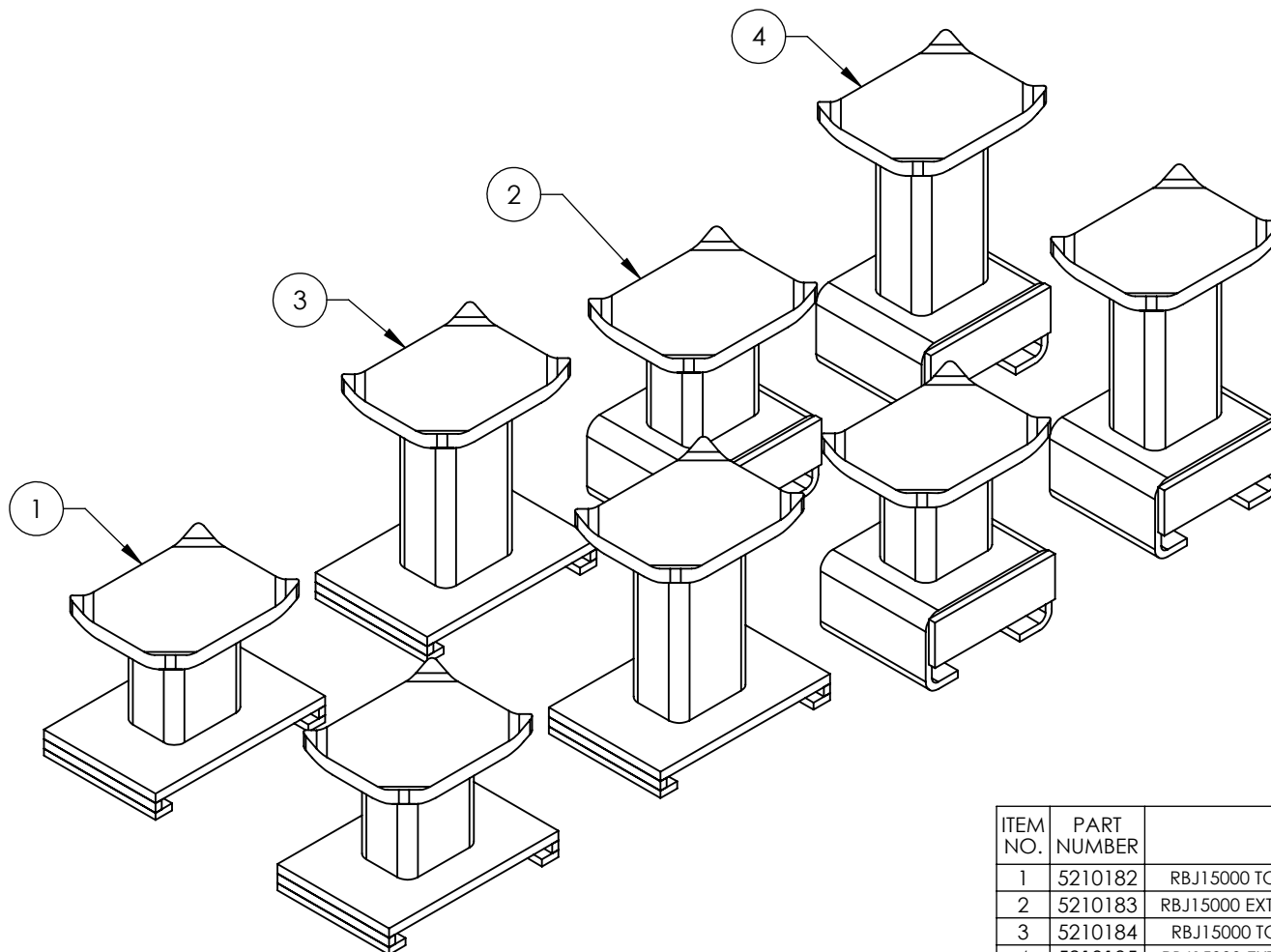
SCALE: 1:12

SHEET 1 OF 2



		
1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: RBJ15000 LIFT SUPERSTRUCTURE		
SIZE	DWG. NO.	REV
A	5205007	N
SCALE: 1:12		SHEET 2 OF 2

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
F	REPLACED 5210421 WITH 5210182 AND 5210183, REPLACED 5210422 WITH 5210184 AND 5210185, UPDATED TITLE TO REFLECT MARKETING, UPDATED NEXT ASSEMBLY	01/22/2016	TM	00739
G	ADDED 5580012	02/26/2020	CA	01146
H	REMOVED 5580012	09/30/2020	TM	01213



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5210182	RBJ15000 TOP TUBE RAIL SHORT HEIGHT ADAPTER WELDMENT	2	A
2	5210183	RBJ15000 EXTENSION ARM SHORT HEIGHT ADAPTER WELDMENT	2	A
3	5210184	RBJ15000 TOP TUBE RAIL LONG HEIGHT ADAPTER WELDMENT	2	A
4	5210185	RBJ15000 EXTENSION ARM LONG HEIGHT ADAPTER WELDMENT	2	A

DO NOT SCALE DRAWING

NAME	DATE
DRAWN AC	01/05/2010
CHECKED OR	10/02/2020

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.



TITLE: RBJ15000 PARTS BOX

SIZE DWG. NO. REV

A 5250116 H

SCALE: 1:5 SHEET 1 OF 1

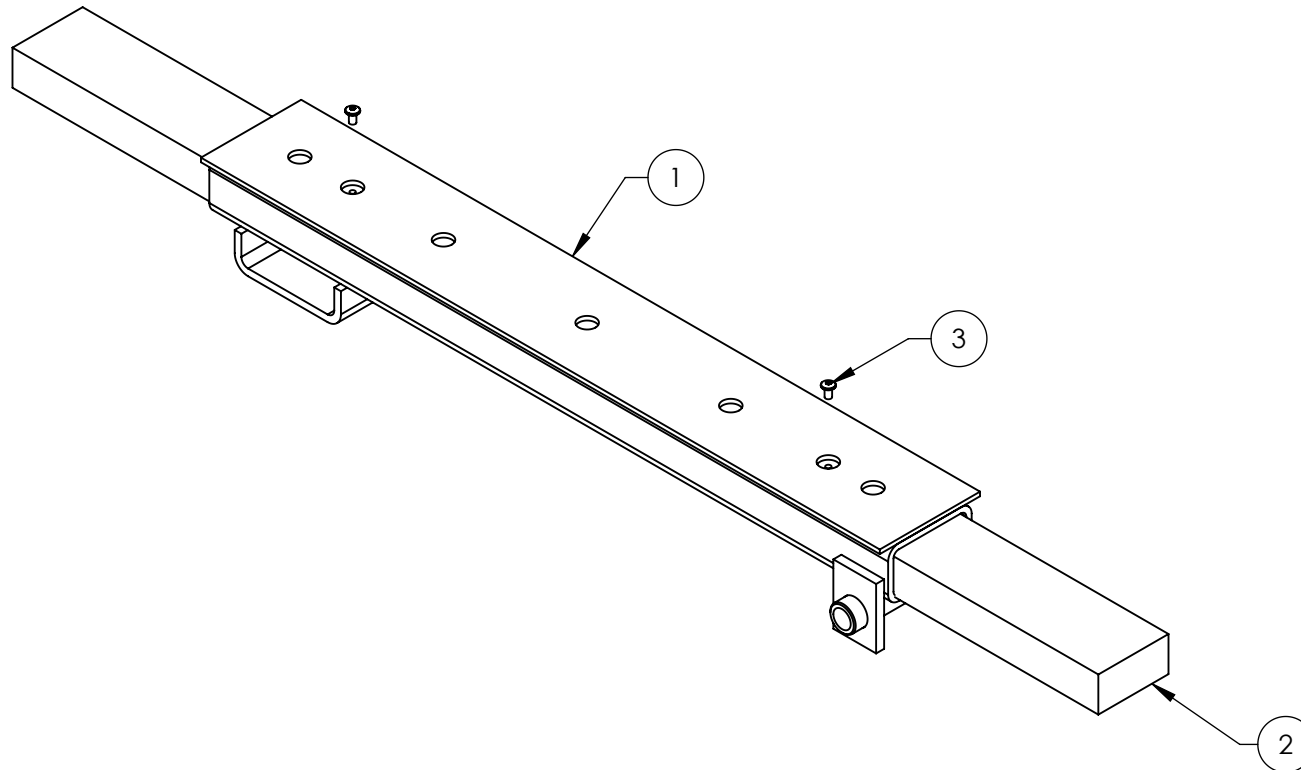
WHERE USED
RBJ15000

NOTE: UNLESS OTHERWISE SPECIFIED.



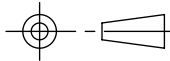

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

NEXT ASSEMBLY
5260545

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5210294	01/07/2016	TM	00739
B	REPLACED 5530284 WITH 5530789, UPDATED BOM REVISION	11/30/2016	TM	00791
C	UPDATED BOM REVISION	04/18/2017	TM	00825



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601068	RBJ15000 UPPER ARM RECEIVER TUBE WELDMENT	1	B
2	5210190	RBJ15000 UPPER ARM WELDMENT	2	B
3	5530789	BHPS M8 x 1.25 x 14	2	--

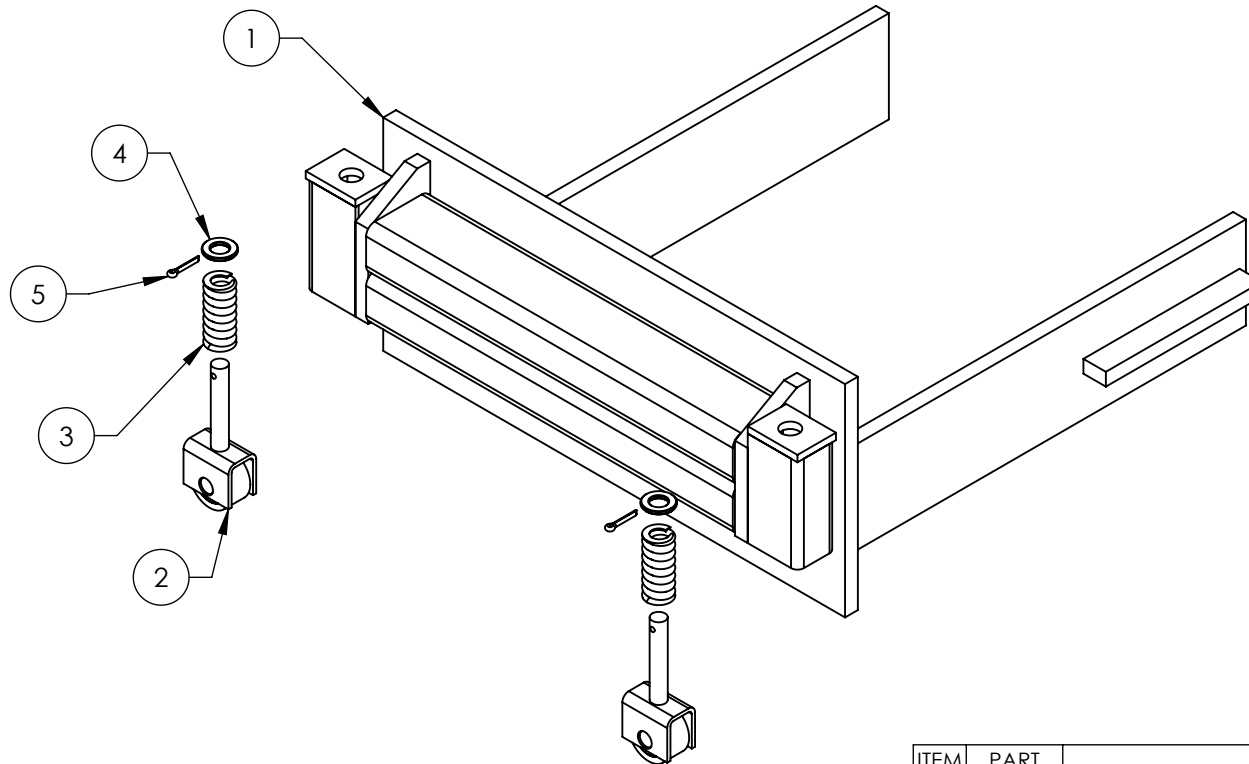
DO NOT SCALE DRAWING		NAME		DATE					
DIMENSIONS ARE IN MM 		DRAWN		TM		11/19/2015			
		CHECKED							
		THIRD ANGLE PROJECTION				TITLE: RBJ15000 TOP EXTENSION ASSEMBLY			
		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		SIZE		DWG. NO.		REV	
				A		5210181		C	
						SCALE: 1:8			

NOTE: UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5205007

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS AND NEXT ASSEMBLY	11/19/2015	TM	00739
D	REPLACED 5540125 WITH 5540027, UPDATED BOM REVISION	03/23/2016	TM	00756
E	UPDATED BOM REVISION	01/08/2019	CA	01038





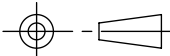
WHERE USED
RBJ15000

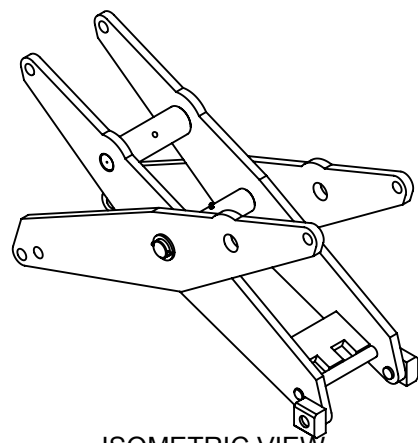
NOTE: UNLESS OTHERWISE SPECIFIED.

1. TASSEMBLE ITEMS AS SHOWN

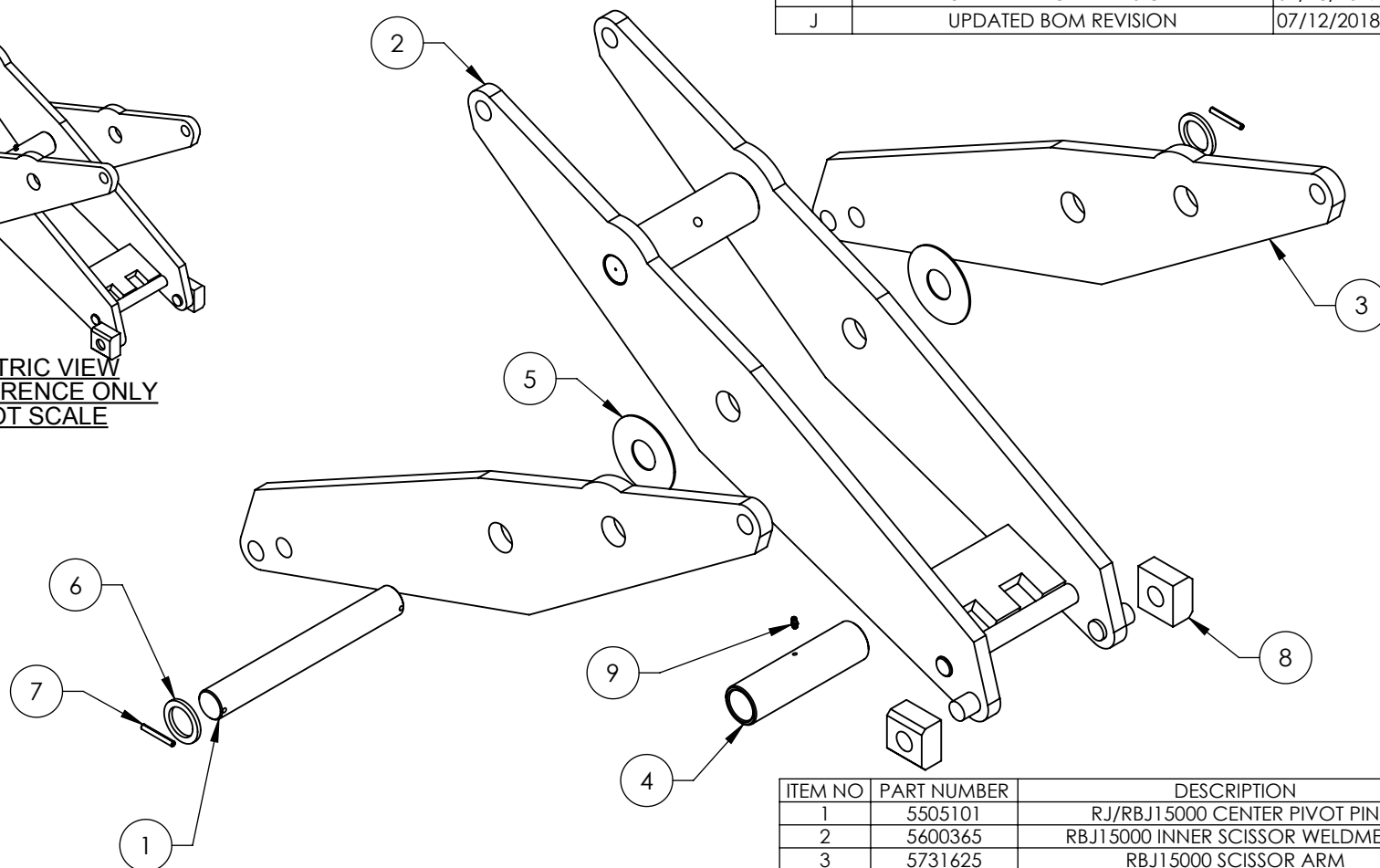
NEXT ASSEMBLY
5205007

ITEM NO	PART NUMBER	DESCRIPTION		QTY	REV
1	5600362	RBJ15000 BASE EXTENSION ARM WELDMENT		1	C
2	5210219	RBJ45000 BYB/15000/18000/25000 RAIL ROLLER ASSEMBLY		2	D
3	5540027	COMPRESSION SPRING 22 x 50mm		2	A
4	5545347	WASHER, M12 FLAT WASHER		2	-
5	5505006	COTTER PIN Ø3.2 x 20mm		2	-

DO NOT SCALE DRAWING		NAME	DATE	<div> 1645 LEMONWOOD DR. SANTA PAULA, CA 93060</div>		
DIMENSIONS ARE IN MM		DRAWN	TM			02/13/2015
		CHECKED	CA			01/08/2019
		THIRD ANGLE PROJECTION		TITLE:		
				RBJ15000 ARM EXTENSION ASSEMBLY		
				SIZE	DWG. NO.	REV
Y	<div>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.</div>		A	5210217	E	
SCALE: 1:5			SHEET 1 OF 1			



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



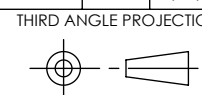
REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
G	UPDATED BOM REVISIONS	02/08/2017	DB	00812
H	UPDATED BOM REVISION	04/18/2017	TM	00825
J	UPDATED BOM REVISION	07/12/2018	TM	00973

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5505101	RJ/RBJ15000 CENTER PIVOT PIN	1	D
2	5600365	RBJ15000 INNER SCISSOR WELDMENT	1	F
3	5731625	RBJ15000 SCISSOR ARM	2	D
4	5746153	RJ/RBJ15000 SCISSOR SPACER	1	C
5	5736502	RBJ15000 SCISSOR ARM SPACER	2	B
6	5746152	RJ/RBJ15000 RETAINER WASHER	2	C
7	5505106	SPRING PIN M6 x 50	2	-
8	5716157	RBJ15000 PLASTIC SLIDE BLOCK	2	E
9	5550025	FTG GRS M6 x 1.0	1	-

DO NOT SCALE DRAWING

NAME	DATE
DRAWN AC	12/09/2009
CHECKED CA	07/20/2018

DIMENSIONS ARE IN MM
TOLERANCES: MACHINE TO
0 = ± 1.5
0.0 = ± 0.5
0.00 = ± 0.13
ANGULAR: MACHINE TO
0 = $\pm 1/2^\circ$
SURFACE FINISH 1.6 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.

BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: RBJ15000 SCISSOR
ASSEMBLY

SIZE	DWG. NO.	REV
A	5215181	J

SCALE: 1:8

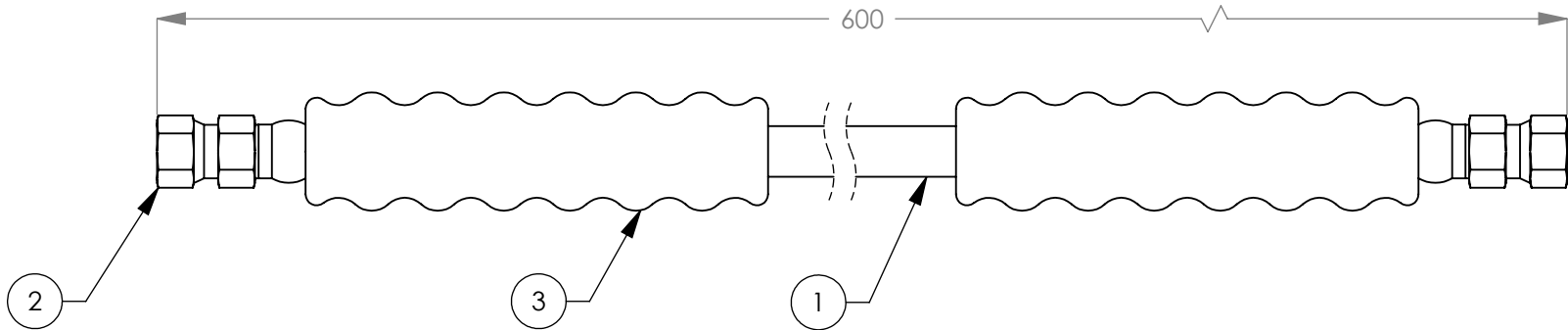
SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5205007

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED 5570171 TO SHOW ROUTING	03/17/2015	TM	00692
C-001	UPDATED NEXT ASSEMBLIES	08/21/2015	TM	00719
D	UPDATED TITLE AND NEXT ASSEMBLIES	02/29/2016	CA	00739
E	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

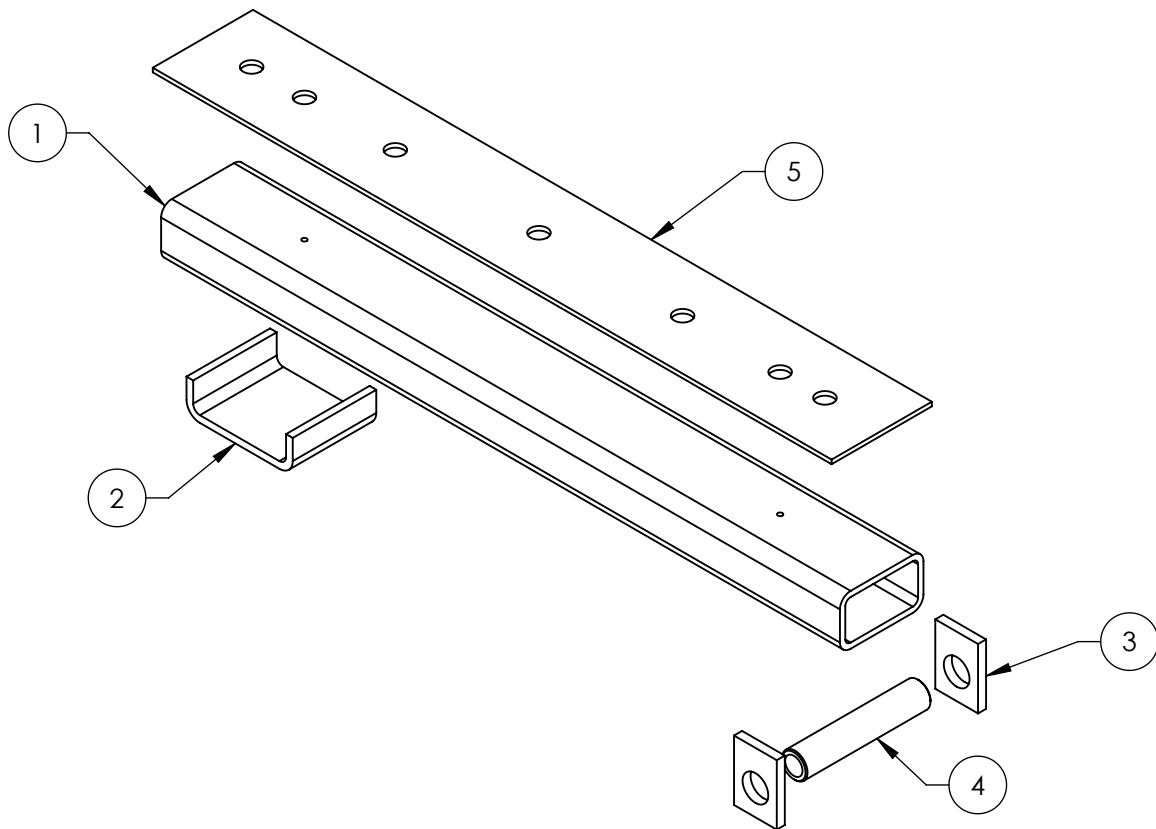
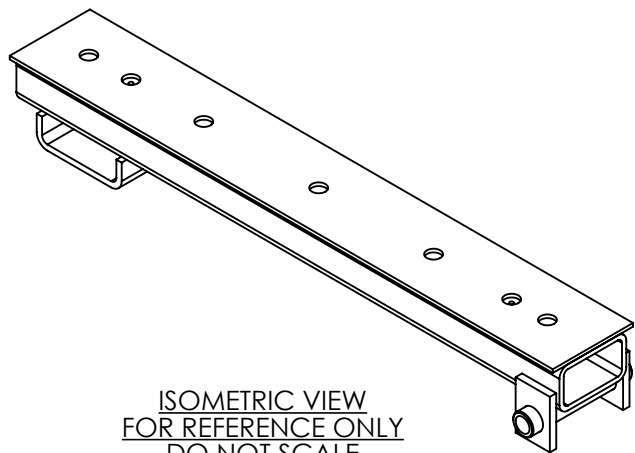
NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5570171	HOSE; Ø6.35 RJ SERIES HYDRAULIC HOSE	534mm*	-
2	5550325	FTG NPL Ø1/4 CRIMP x -04 JIC	2	-
3	5570037	HOSE BEND RESTRICTOR	2	-

NEXT ASSEMBLY
5205005
5205006
5205007
5205008
5205009
5205010
5205011
5205012
5205013

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	AC	01/16/2010	
	CHECKED	CA	04/24/2019	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE: RJW SERIES HOSE ASSY Ø6.4mm x 600mm DS
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				SIZE DWG. NO.
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.		A 5570806		REV
				E
		SCALE: 1:2		SHEET 1 OF 1



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600366	11/19/2015	TM	00739
B	UPDATED BOM REVISIONS	12/01/2016	TM	00791
B-001	ADDED 20% GLOSS PAINT NOTE	02/21/2020	CA	01146

WHERE USED
RBJ15000

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- BREAK AND DEBURR ALL SHARP EDGES 0.3mm
- REMOVE ALL WELD SPLATTER
- MASK BORES AND THREADS BEFORE WELDING AND PAINTING
- DIMENSIONS SHOWN ARE AFTER PAINTING
- PAINT BENDPAK BLACK (RAL-9017) 20% GLOSS

NEXT ASSEMBLY
5210181

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766109	RBJ15000 UPPER EXTENSION RECEIVER TUBE	1	C
2	5700180	RBJ15000 UPPER SCISSOR CHANNEL	1	B
3	5736504	RBJ15000 TOP TUBE HINGE PLATE	2	B
4	5755104	RBJ15000 UPPER TUBE SPACER	1	C
5	5736952	RBJ15000 HEIGHT ADAPTER TUBE RAIL	1	A

DO NOT SCALE DRAWING

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

NAME	DATE
DRAWN TM	11/19/2015
CHECKED OR	03/04/2020

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.



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: RBJ15000 UPPER ARM
RECEIVER TUBE WELDMENT

SIZE	DWG. NO.	REV
A	5601068	B

SCALE: 1:8

SHEET 1 OF 2

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



1645 Lemonwood Dr.
Santa Paula, CA 93060 USA
Tel: 1 (805) 253-2563
Tel: 1 (805) 933-9970
bendpak.com

Rolling Bridge Jacks

Installation and Operation Manual

Manual P/N 5900004 — Manual Revision D1 — Released October 2020

Models:

- RBJ15000
- RBJ18000
- RBJ25000



Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.



Read the *entire* contents of this manual *before* using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. ***By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.***

2. Vendor Information (Or for Reference)

Approved Vendor	Vendor Part #	Contact #	Preferred Vendor
1)			
OR BENDPAK ENGINEERING APPROVED EQUIVALENT			

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

A



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

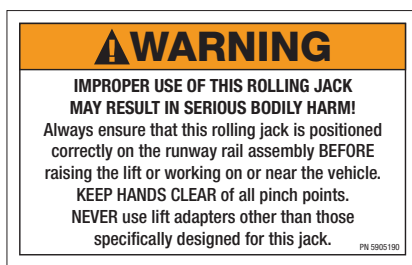
Finish: Polished

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

PN 5905552

B



PN 5905190

Warning_Improper_Use_Label.pdf:

Size: 4"W x 2.5"H

Material: White Vinyl Pressure Sensitive Adhesive

Thickness: 4 Mil

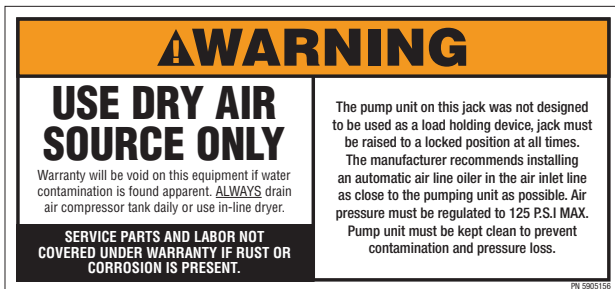
Ink: U.V. protected CMYK 2/C Process

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



PN 5905156

Warning_Dry_Air_Label.pdf:

Size: 7"W x 3.5"H

Material: White Vinyl Pressure Sensitive Adhesive

Thickness: 4 Mil

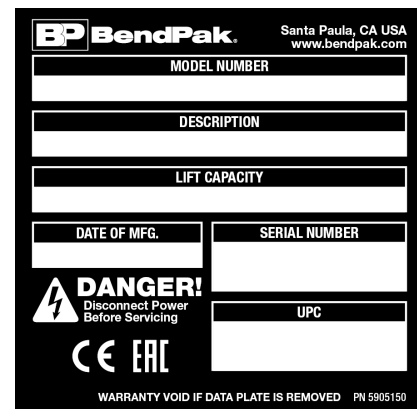
Ink: U.V. protected CMYK 2/C Process

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

D



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 adhesive.

Ink: 1 Color-Black