

Service Manual

SERVICE PARTS & DIAGRAMS

BENDPAK HD-9XL

PRODUCT SKU
5175859

DRAWING Nº
5260517

CATEGORY
Four Post Lift

REV
Version AD

DATE
06.16.2022



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.

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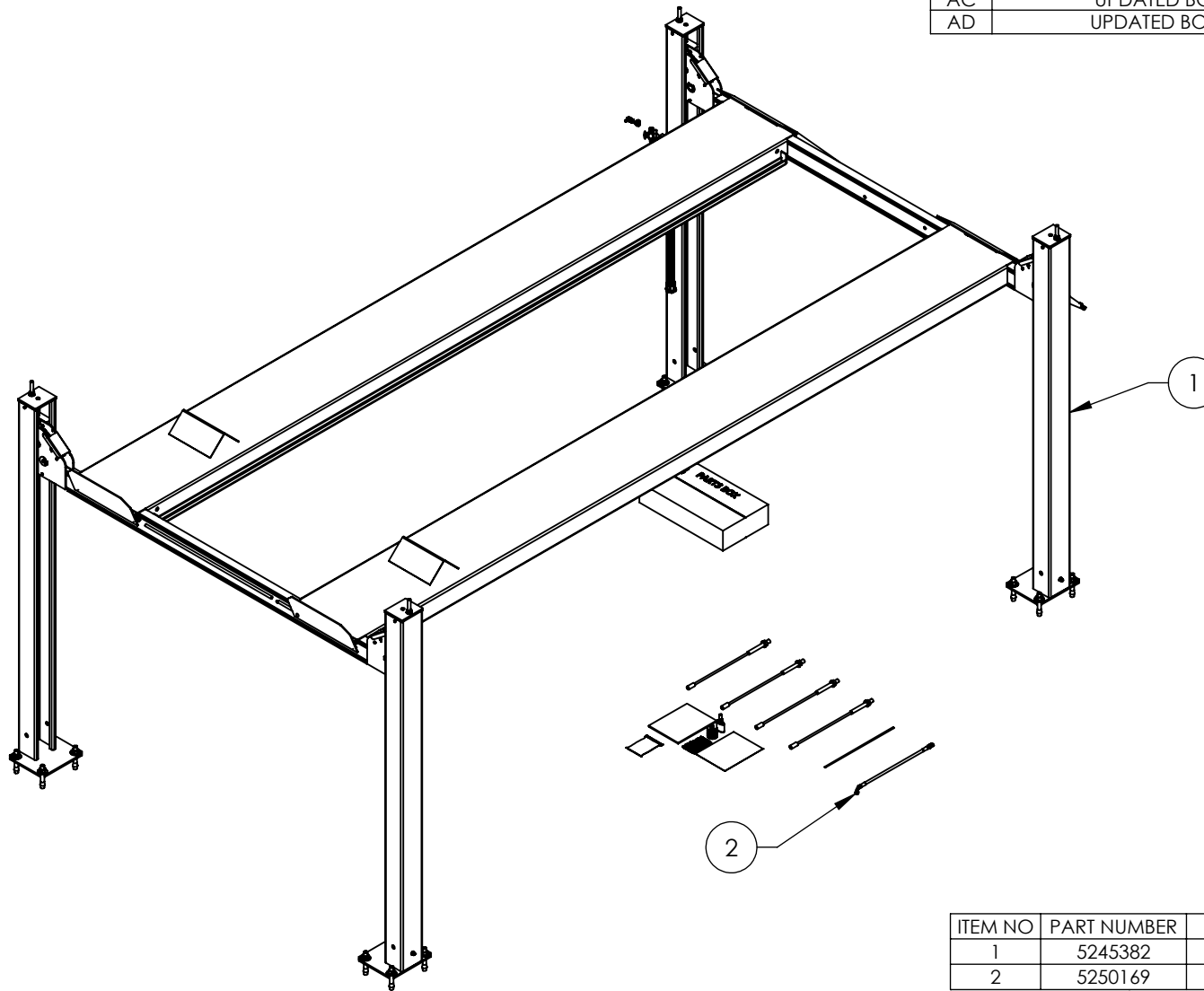
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Fax: 1-805-933-9160
bpkexports@bendpak.com

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
AB	REPLACED LABELS WITH COLORS & GRAPHICS NOTE	09/27/2021	TM	01344
AC	UPDATED BOM REVISION	12/13/2021	TM	01367
AD	UPDATED BOM REVISIONS	05/24/2022	TM	01414

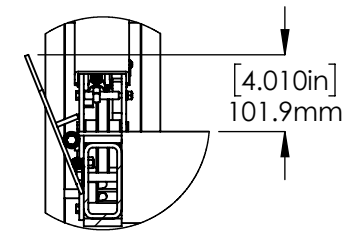
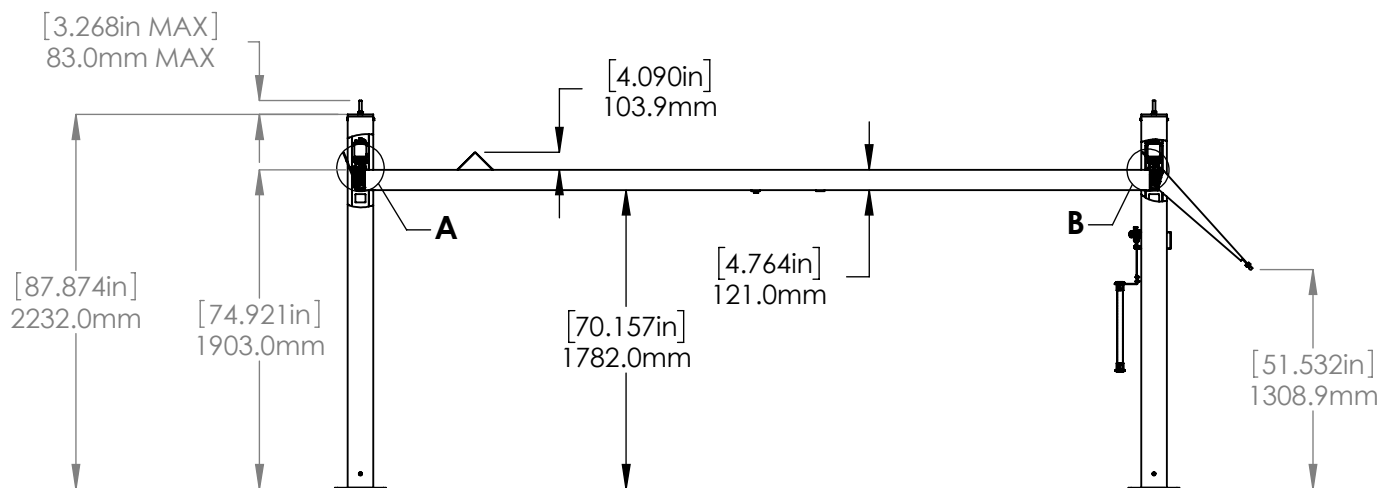
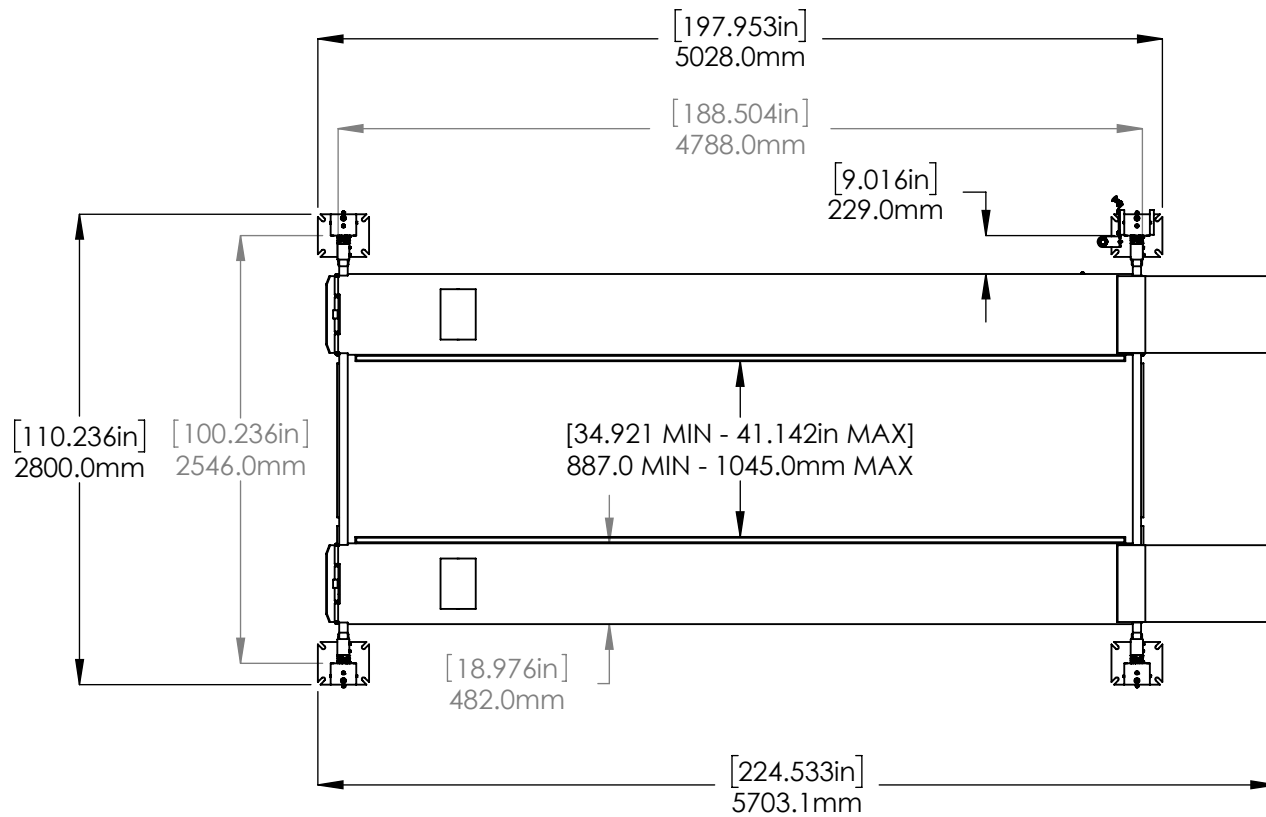


NOTE: UNLESS OTHERWISE SPECIFIED.

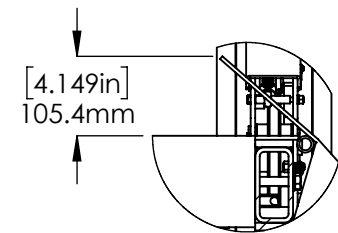
1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. SEE COLORS & GRAPHICS FOR LABEL PLACEMENT
3. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5245382	HD-9XL LIFT SUPERSTRUCTURE	1	X
2	5250169	HD-9XL PARTS BOX	1	Q

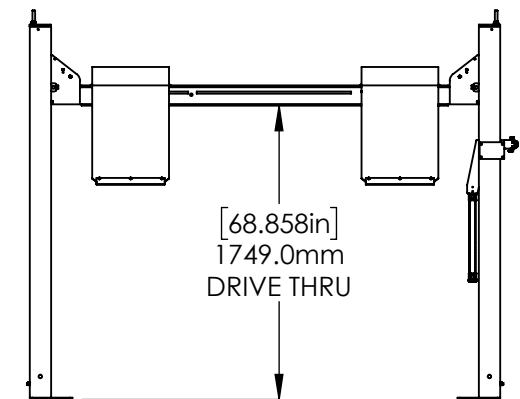
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DRAWN		TM	08/12/2014	
CHECKED				
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: HD-9XL PRODUCTION LIFT VER E (CE CERT)
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		A 5260517		AD
SCALE: 1:35				SHEET 1 OF 3



DETAIL A
SCALE 1 : 10



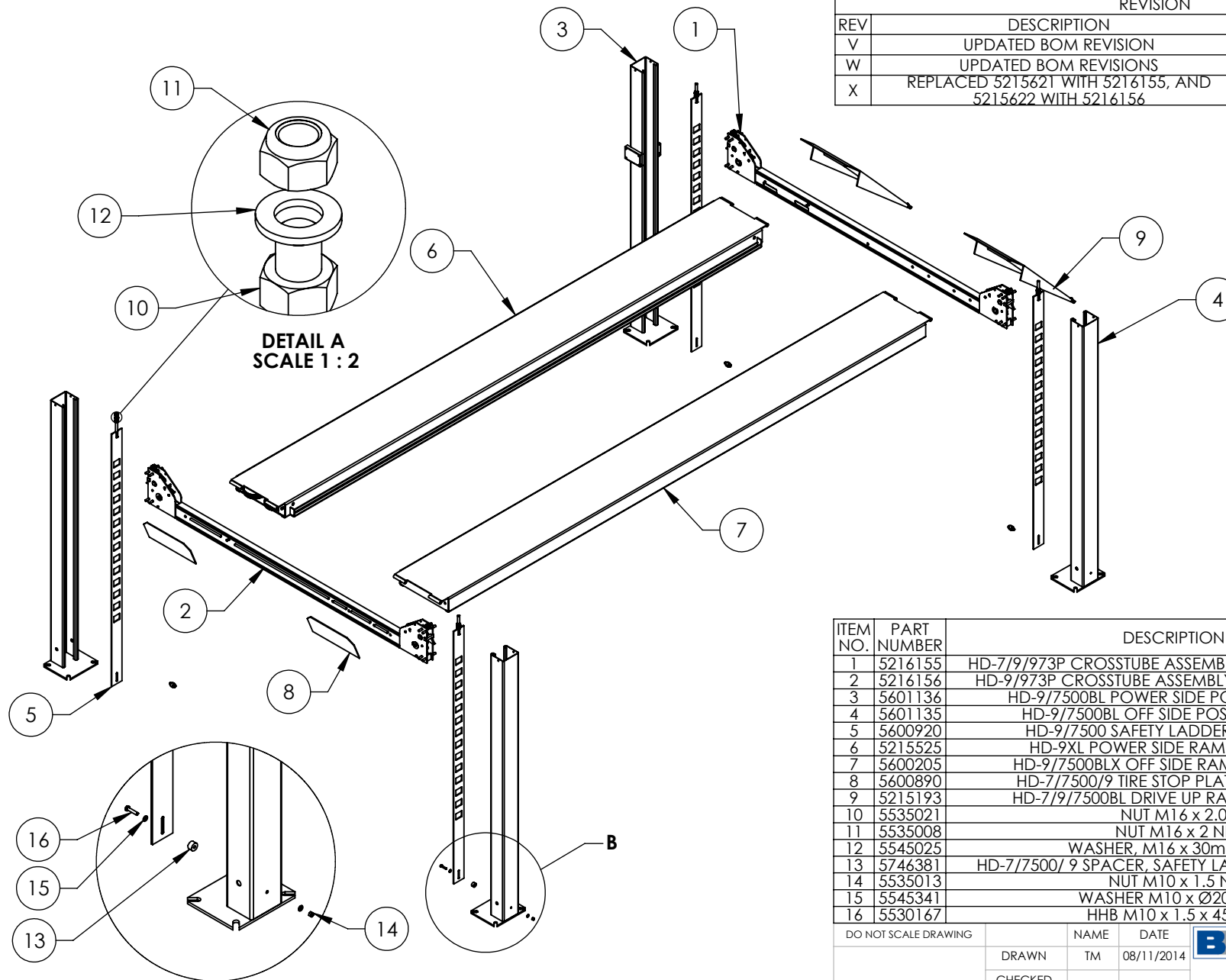
DETAIL B
SCALE 1 : 10



FRONT VIEW

BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: HD-9XL PRODUCTION LIFT VER E (CE CERT)		
SIZE	DWG. NO.	REV
A	5260517	AD
SCALE: 1:45		SHEET 2 OF 3

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
V	UPDATED BOM REVISION	07/14/2021	TM	01316
W	UPDATED BOM REVISIONS	12/13/2021	TM	01367
X	REPLACED 5215621 WITH 5216155, AND 5215622 WITH 5216156	05/24/2022	TM	01414



WHERE USED
HD-9XL

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- THREAD M16 HARDWARE ONTO LADDER BOLTS AS SHOWN

NEXT ASSEMBLY
5260517

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5216155	HD-7/9/973P CROSSTUBE ASSEMBLY, SMALL WINDOW	1	A
2	5216156	HD-9/973P CROSSTUBE ASSEMBLY, LARGE WINDOW	1	A
3	5601136	HD-9/7500BL POWER SIDE POST WELDMENT	1	A
4	5601135	HD-9/7500BL OFF SIDE POST WELDMENT	3	A
5	5600920	HD-9/7500 SAFETY LADDER WELDMENT	4	B
6	5215525	HD-9XL POWER SIDE RAMP ASSEMBLY	1	Q
7	5600205	HD-9/7500BLX OFF SIDE RAMP WELDMENT	1	K
8	5600890	HD-7/7500/9 TIRE STOP PLATE WELDMENT	2	F
9	5215193	HD-7/9/7500BL DRIVE UP RAMP ASSEMBLY	2	G
10	5535021	NUT M16 x 2.0	4	-
11	5535008	NUT M16 x 2 NL	4	-
12	5545025	WASHER, M16 x 30mm FLAT	4	-
13	5746381	HD-7/7500/ 9 SPACER, SAFETY LADDER, 17.5mm LG	4	B
14	5535013	NUT M10 x 1.5 NL	4	-
15	5545341	WASHER M10 x Ø20 FLAT	8	-
16	5530167	HMB M10 x 1.5 x 45mm	4	-

DO NOT SCALE DRAWING

NAME DATE
DRAWN TM 08/11/2014
CHECKED

DIMENSIONS ARE IN MM



THIRD ANGLE PROJECTION



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BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

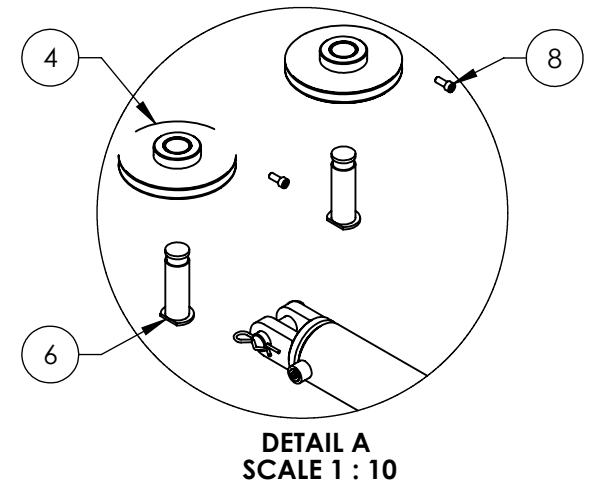
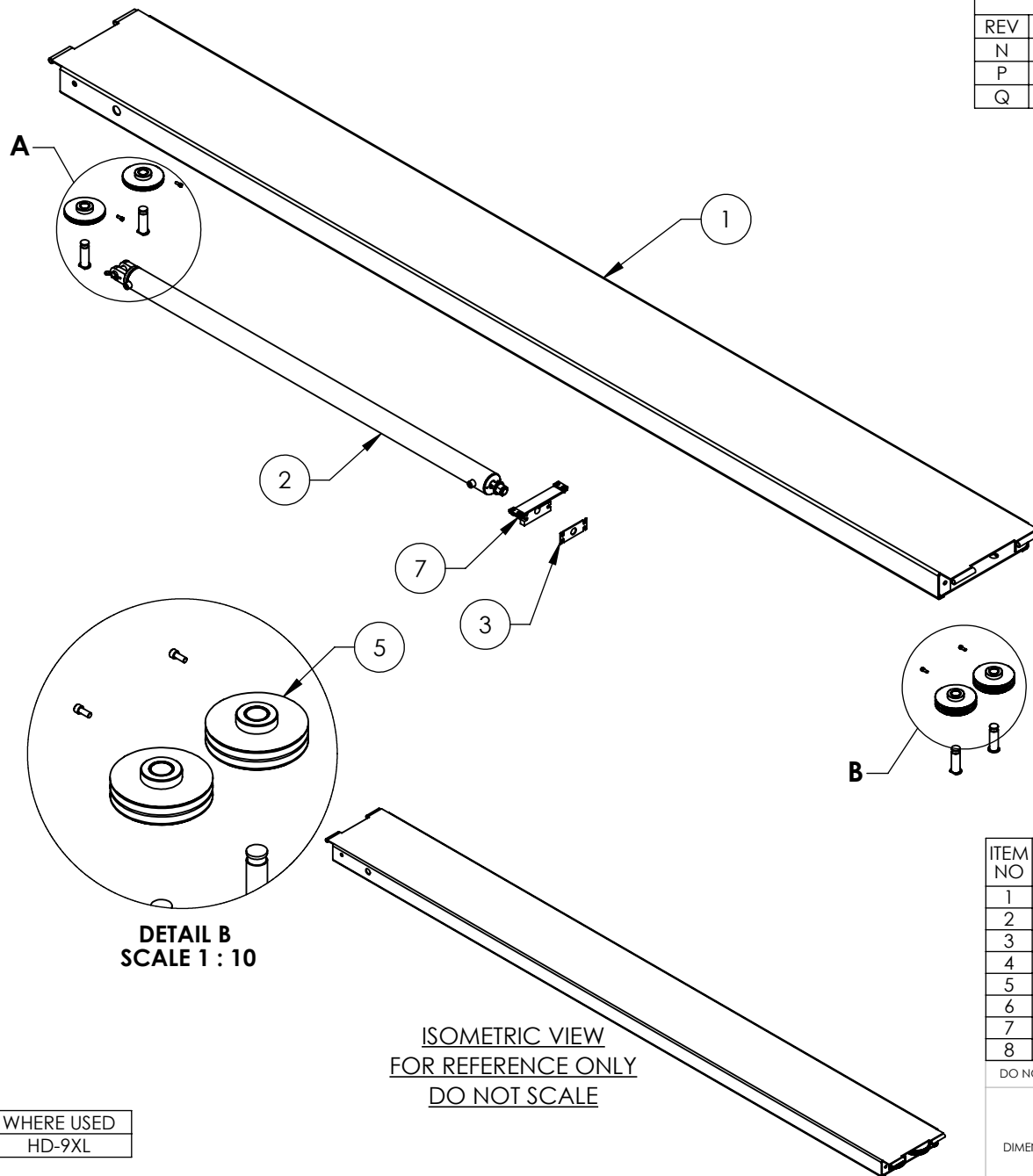
TITLE: HD-9XL LIFT
SUPERSTRUCTURE

SIZE DWG. NO. REV
A 5245382 X

SCALE: 1:40

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
N	UPDATED BOM REVISION	07/07/2020	TM	01174
P	UPDATED BOM REVISION	07/13/2021	TM	01316
Q	UPDATED BOM REVISION	12/10/2021	TM	01367



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600192	HD-9/7500BLX POWER SIDE WELDMENT	1	K
2	5502165	CYLINDER ASSEMBLY Ø3.0 x 70	1	N
3	5731309	CABLE RETAINER PLATE	1	A
4	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
5	5215123	HD-7500BL/9 TWIN SHEAVE ASSEMBLY	2	E
6	5600900	HD-7/7500/9 RAMP SHEAVE SHAFT WELDMENT	4	E
7	5215820	HD-7500/9 CYLINDER FLANGE ARM ASSEMBLY	1	B
8	5530776	SHCS M8 x 1.25 x 20mm	4	-

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NAME	DATE
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DRAWN	TM	06/03/2011
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CHECKED		
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THIRD ANGLE PROJECTION



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: HD-9XL POWER SIDE RAMP ASSEMBLY

SIZE	DWG. NO.	REV
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SCALE: 1:25

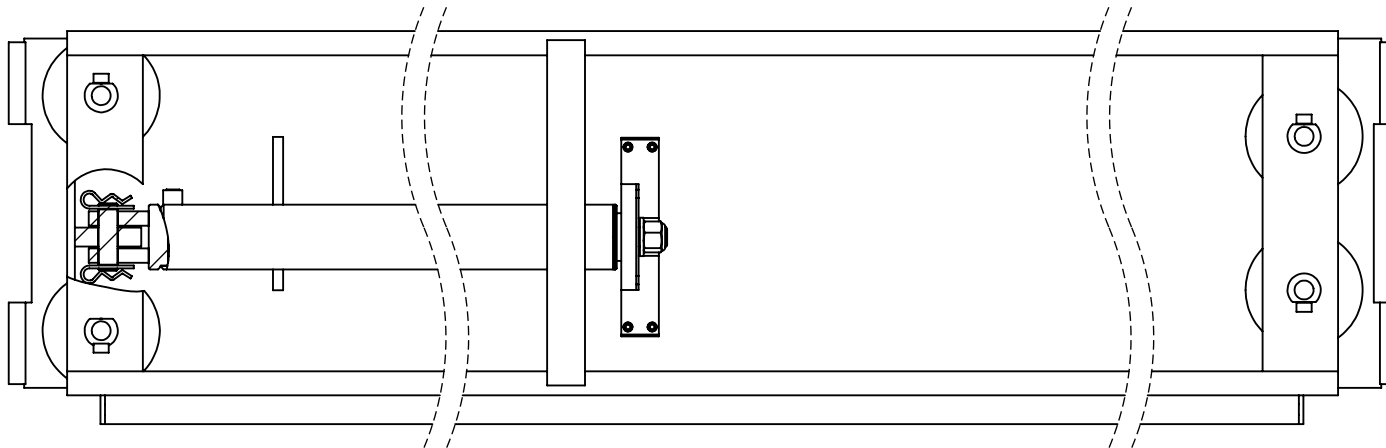
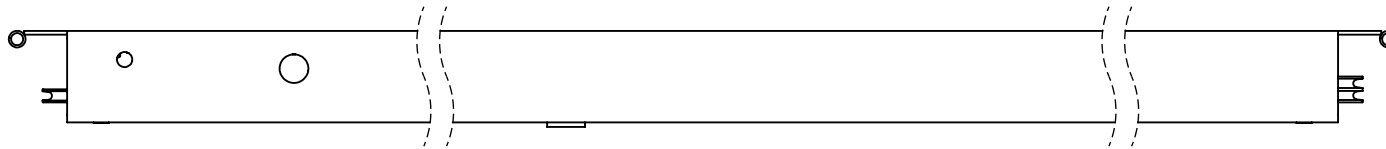
SHEET 1 OF 2

WHERE USED
HD-9XL

NOTE: UNLESS OTHERWISE SPECIFIED.

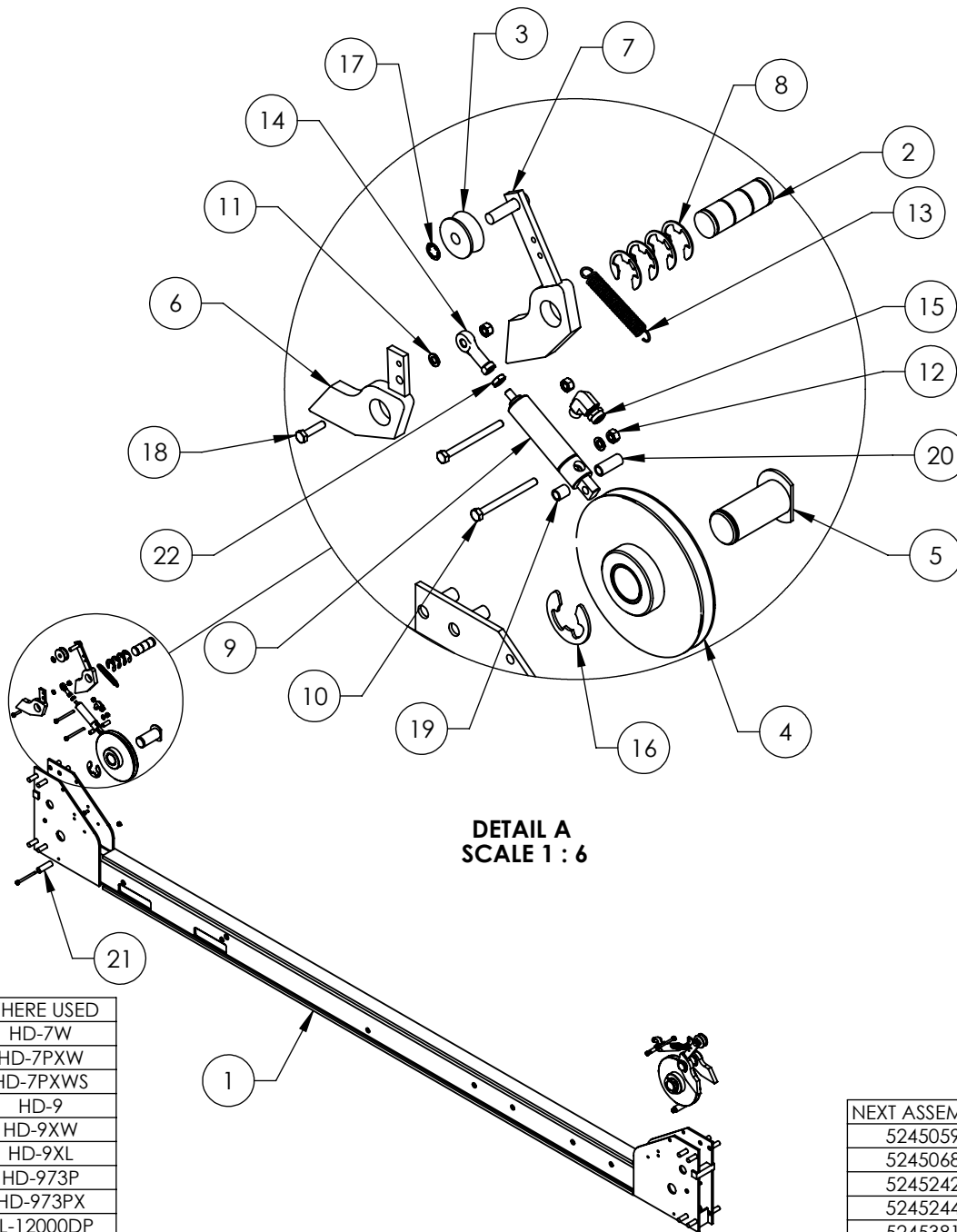
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5245382



		
1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: HD-9XL POWER SIDE RAMP ASSEMBLY		
SIZE	DWG. NO.	REV
A	5215525	Q
SCALE: 1:10		SHEET 2 OF 2

REVISION		DATE	EDITED BY	ECO#
REV	DESCRIPTION			
A	PRODUCTION RELEASE, DERIVED FROM 5215621	04/29/2022	TM	01414



WHERE USED
HD-7W
HD-7PXW
HD-7PXWS
HD-9
HD-9XW
HD-9XL
HD-973P
HD-973PX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601822	HD-7/9/973P CROSSTUBE WELDMENT, SMALL WINDOW	1	A
2	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	2	D
3	5575420	HD-7/7500/9 SAFETY ROLLER	2	C
4	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
5	5600160	HD-7/7500/9 CROSSTUBE SHEAVE SHAFT WELDMENT	2	G
6	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
7	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
8	5540275	E RING Ø25mm OD DIN 6799 0250	8	-
9	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	-
10	5530005	HHB M6 x 1 x 70	6	-
11	5545005	WASHER, M6 x 12mm FLAT	4	-
12	5535357	NUT M6 x 1.0 NL	8	-
13	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
14	5505625	FEMALE ROD END M6 x 33	2	-
15	5550087	FTG ELB -04 COMP x -02 NPT	2	-
16	5540010	E RING Ø32mm OD DIN 6799	2	-
17	5505030	PUSH-ON CLIP Ø10mm SS	2	-
18	5530756	HHB M6 x 1.0 x 25mm	2	-
19	5755136	AIR CYLINDER SPACER 12mm	2	A
20	5755137	AIR CYLINDER SPACER 25mm	2	A
21	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	2	A
22	5535230	NUT 1/4-28 JN	2	-

NEXT ASSEMBLY
5245059
5245068
5245242
5245244
5245381
5245382
5245383
5245384
5245385

DO NOT SCALE DRAWING

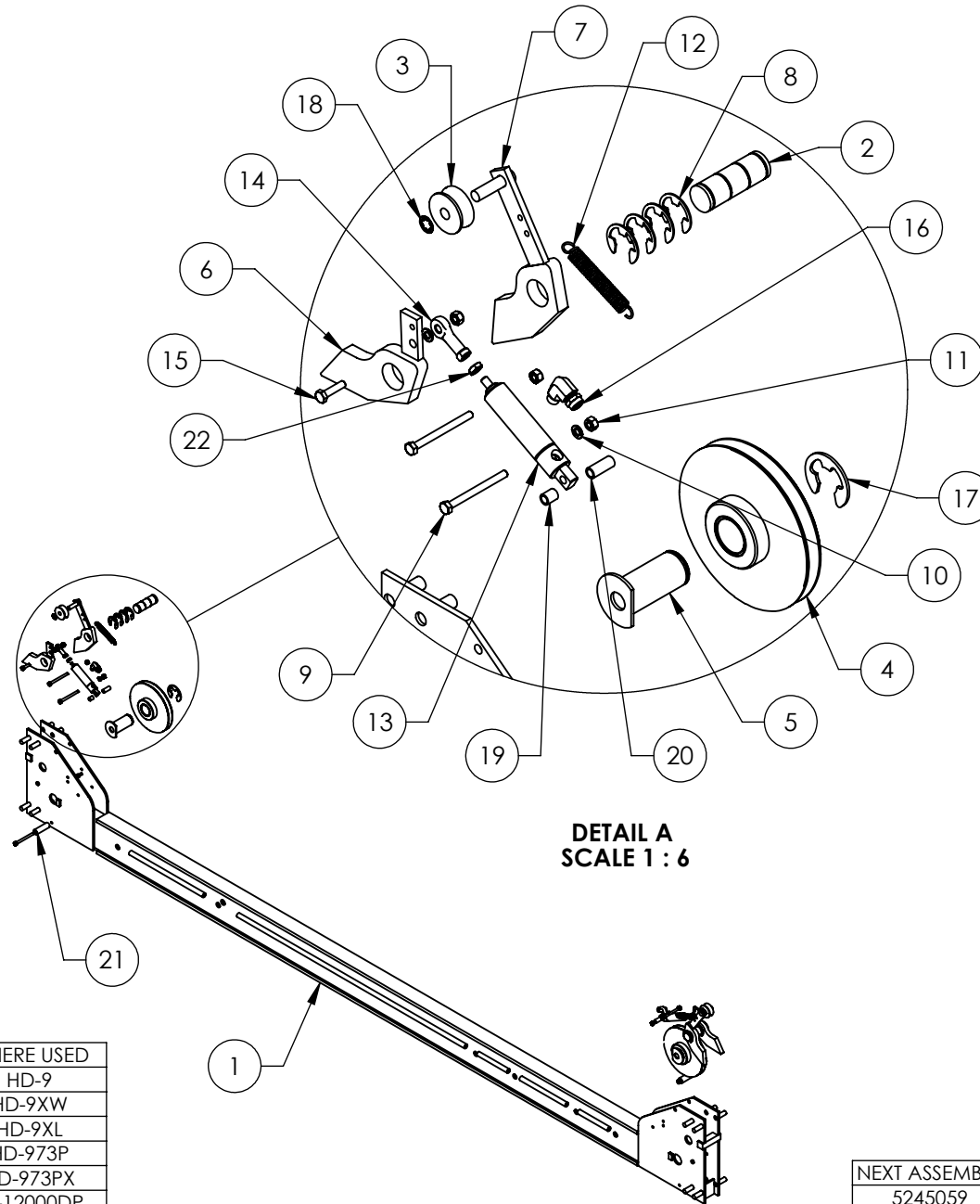
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NAME	DATE
DRAWN	TM 04/29/2022
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THIRD ANGLE PROJECTION	
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1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: HD-7/9/973P CROSSTUBE ASSEMBLY, SMALL WINDOW	
SIZE DWG. NO.	REV
A 5216155	A
SCALE: 1:20	
SHEET 1 OF 1	

REVISION		DATE	EDITED BY	ECO#
REV	DESCRIPTION			
A	PRODUCTION RELEASE, DERIVED FROM 5215622	04/29/2022	TM	01414



**DETAIL A
SCALE 1:6**

WHERE USED
HD-9
HD-9XW
HD-9XL
HD-973P
HD-973PX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601821	HD-9/973P CROSSTUBE WELDMENT, LARGE WINDOW	1	A
2	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	2	D
3	5575420	HD-7/7500/9 SAFETY ROLLER	2	C
4	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
5	5600160	HD-7/7500/9 CROSSTUBE SHEAVE SHAFT WELDMENT	2	G
6	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
7	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
8	5540275	E RING Ø25mm OD DIN 6799 0250	8	-
9	5530005	HHB M6 x 1 x 70	6	-
10	5545005	WASHER, M6 x 12mm FLAT	4	-
11	5535357	NUT M6 x 1.0 NL	8	-
12	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
13	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	-
14	5505625	FEMALE ROD END M6 x 33	2	-
15	5530756	HHB M6 x 1.0 x 25mm	2	-
16	5550087	FTG ELB -04 COMP x -02 NPT	2	-
17	5540010	E RING Ø32mm OD DIN 6799	2	-
18	5505030	PUSH-ON CLIP Ø10mm SS	2	-
19	5755136	AIR CYLINDER SPACER 12mm	2	A
20	5755137	AIR CYLINDER SPACER 25mm	2	A
21	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	2	A
22	5535230	NUT 1/4-28 JN	2	-

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NAME	DATE
DRAWN TM	04/29/2022
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THIRD ANGLE PROJECTION



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NAME	DATE
DRAWN TM	04/29/2022
CHECKED	

BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
**HD-9/973P CROSSTUBE
ASSEMBLY, LARGE WINDOW**

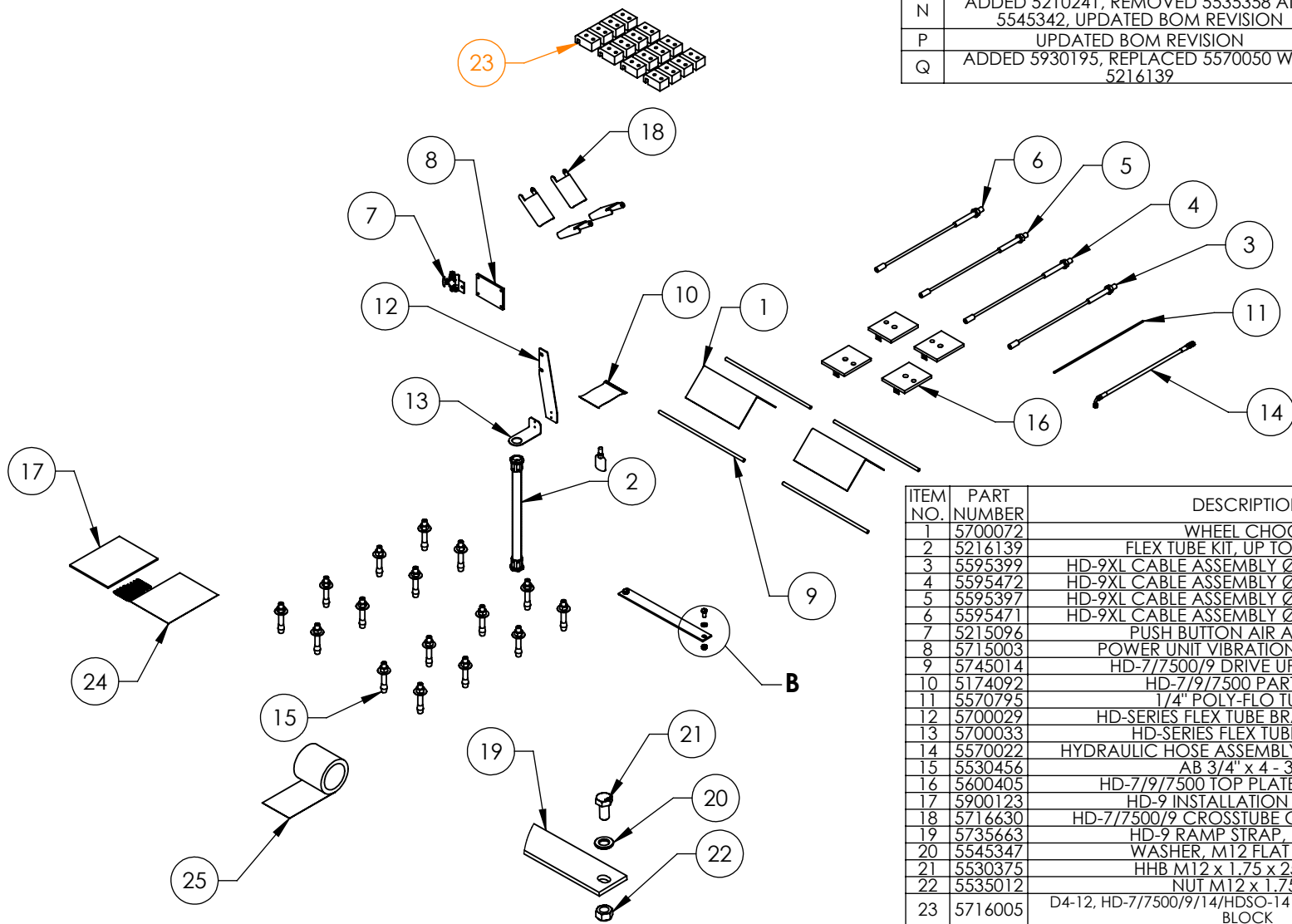
SIZE DWG. NO. REV
A 5216156 **A**

SCALE: 1:20

SHEET 1 OF 1

NEXT ASSEMBLY
5245059
5245068
5245242
5245381
5245382
5245383

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
N	ADDED 5210241, REMOVED 5535358 AND 5545342, UPDATED BOM REVISION	07/13/2020	TM	01174
P	UPDATED BOM REVISION	07/19/2021	TM	01316
Q	ADDED 5930195, REPLACED 5570050 WITH 5216139	05/04/2022	TM	01414 PRE A



DETAIL B
SCALE 1 : 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REV
1	5700072	WHEEL CHOCK	2	B
2	5216139	FLEX TUBE KIT, UP TO 2000mm	1	A
3	5595399	HD-9XL CABLE ASSEMBLY Ø10 x 9932mm ST	1	C
4	5595472	HD-9XL CABLE ASSEMBLY Ø10 x 8332mm ST	1	C
5	5595397	HD-9XL CABLE ASSEMBLY Ø10 x 5195mm ST	1	C
6	5595471	HD-9XL CABLE ASSEMBLY Ø10 x 3582mm ST	1	C
7	5215096	PUSH BUTTON AIR ASSEMBLY	1	G
8	5715003	POWER UNIT VIBRATION DAMPENER	1	B
9	5745014	HD-7/7500/9 DRIVE UP RAMP PIN	4	B
10	5174092	HD-7/7500/9 PARTS BAG	1	G
11	5570795	1/4" POLY-FLO TUBING	17000mm*	-
12	5700029	HD-SERIES FLEX TUBE BRACKET PLATE	1	F
13	5700033	HD-SERIES FLEX TUBE ANGLE	1	E
14	5570022	HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm	1	G
15	5530456	AB 3/4" x 4 - 3/4"	16	-
16	5600405	HD-7/7500/9 TOP PLATE WELDMENT	4	C
17	5900123	HD-9 INSTALLATION MANUAL	1	-
18	5716630	HD-7/7500/9 CROSSTUBE COVER, PLASTIC	4	A
19	5735663	HD-9 RAMP STRAP, BOLT ON	1	B
20	5545347	WASHER, M12 FLAT WASHER	2	-
21	5530375	HHB M12 x 1.75 x 25 CL12.9	2	-
22	5535012	NUT M12 x 1.75 NL	2	-
23	5716005	D4-12, HD-7/7500/9/14/HDSO-14 POLYETHYLENE SLIDE BLOCK	16	M
24	5210241	4 POST LIGHT DUTY CE PARTS BAG	1	A
25	5930195	ANTI-SLIP TAPE, 6" x 24ft	1	-

WHERE USED
HD-9XL

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- HOSES AND CABLES IN REPRESENTATIONAL FORM
- (*) LENGTH FOR REFERENCE ONLY

NEXT ASSEMBLY
5260517

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME DATE
DRAWN TM 05/07/2013
CHECKED

THIRD ANGLE PROJECTION



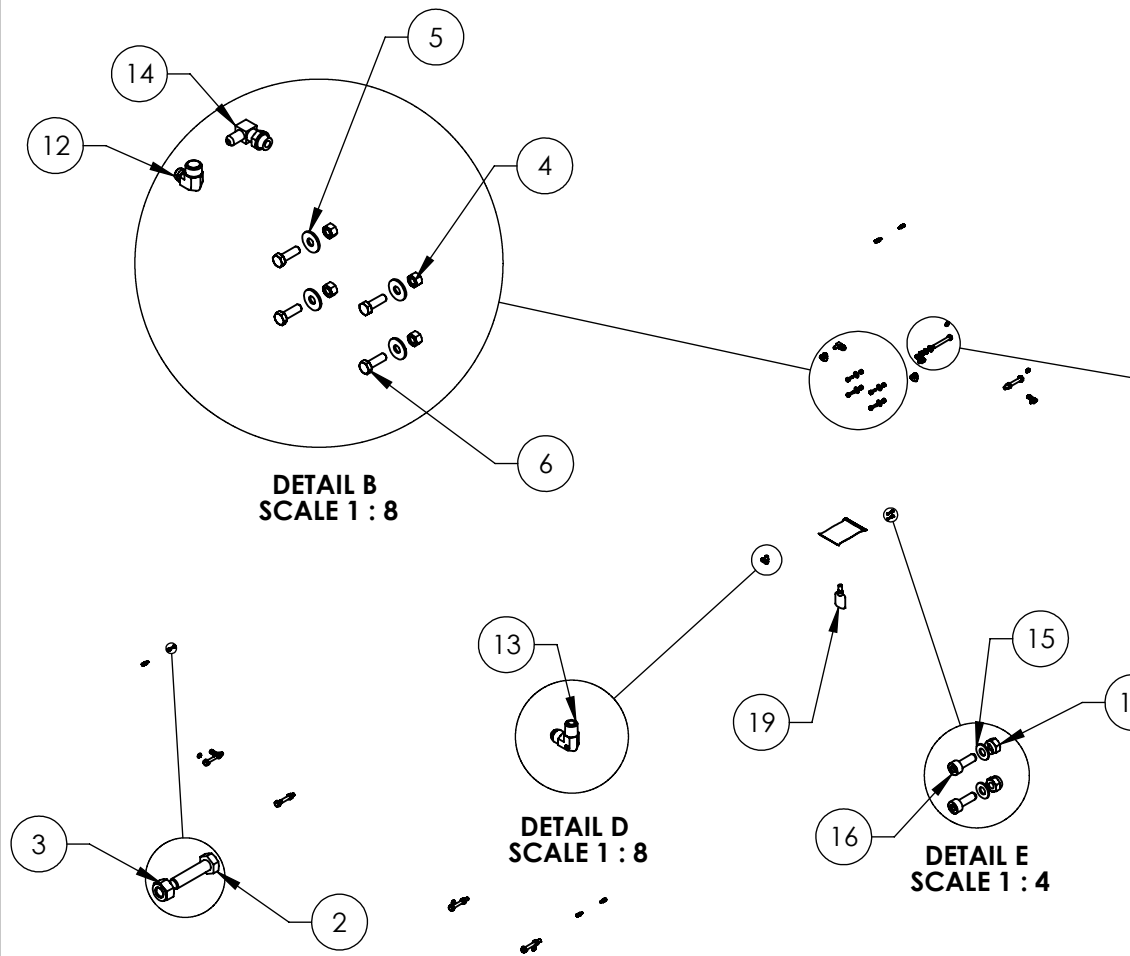
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SANTA PAULA, CA 93060

TITLE:
HD-9XL PARTS BOX

SIZE DWG. NO. REV
A 5250169 **Q**

SCALE: 1:25 SHEET 1 OF 1



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
E	REPLACED 5550004 WITH 5550089, 5550489 WITH 5550395, UPDATED NEXT ASSEMBLIES	10/29/2013	TM	00593
F	ADDED 5550025 AND 5580012	12/12/2019	CA	01120
G	REMOVED 5550025	07/14/2021	TM	01316

WHERE USED	
HD-7W	HD-7500BLX
HD-7P	HD-9STX
HD-9	HD-75BXT
HD-9XL	HD-7500BL
HD-9XW	HD-7500BLX

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REV
1	5505031	ROTOR CLIP 12mm SS	8	-
2	5530756	HHB M6 x 1.0 x 25mm	8	-
3	5535357	NUT M6 x 1.0 NL	8	-
4	5535001	NUT M8 x 1.25 NL	4	-
5	5545340	WASHER M8 x24 FLAT	4	-
6	5530010	HHB M8 x 1.25 x 25	4	-
7	5530009	HHB M12 x 1.75 x 90 CL8.8	8	-
8	5545201	WASHER, M12 SPRING LOCK	8	-
9	5545347	WASHER, M12 FLAT WASHER	8	-
10	5535354	NUT, M12 x1.75	8	-
11	5550395	FTG TEE -04 COMP x -04 COMP x -04 COMP	3	-
12	5550089	FTG ELB -04 COMP x -06 NPT	2	-
13	5550106	FTG ELB -04JIC x 3/8" NPT	1	-
14	5550008	FTG ELB -04 JIC -06L ORB	1	-
15	5545009	WASHER, Ø4.3 x Ø9mm x 0.8mm	2	-
16	5530008	SHCS M4 x 0.7 x 12 BOC	2	-
17	5535010	NUT M4 X 0.7 NL	2	-
18	5545535	C WASHER SHIM FOR LIFTS	20	-
19	5580012	LIQUID PTFE THREAD SEALANT 50ml	1	-

NEXT ASSEMBLY
5250164
5250167
5250168
5250169
5250184
5250185
5250187
5250188
5250189
5250338

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM

NAME
AC
DATE
08/08/2008

CHECKED
OR
07/26/2021

THIRD ANGLE PROJECTION

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-7/9/7500 PARTS BAG

SIZE DWG. NO.
A 5174092

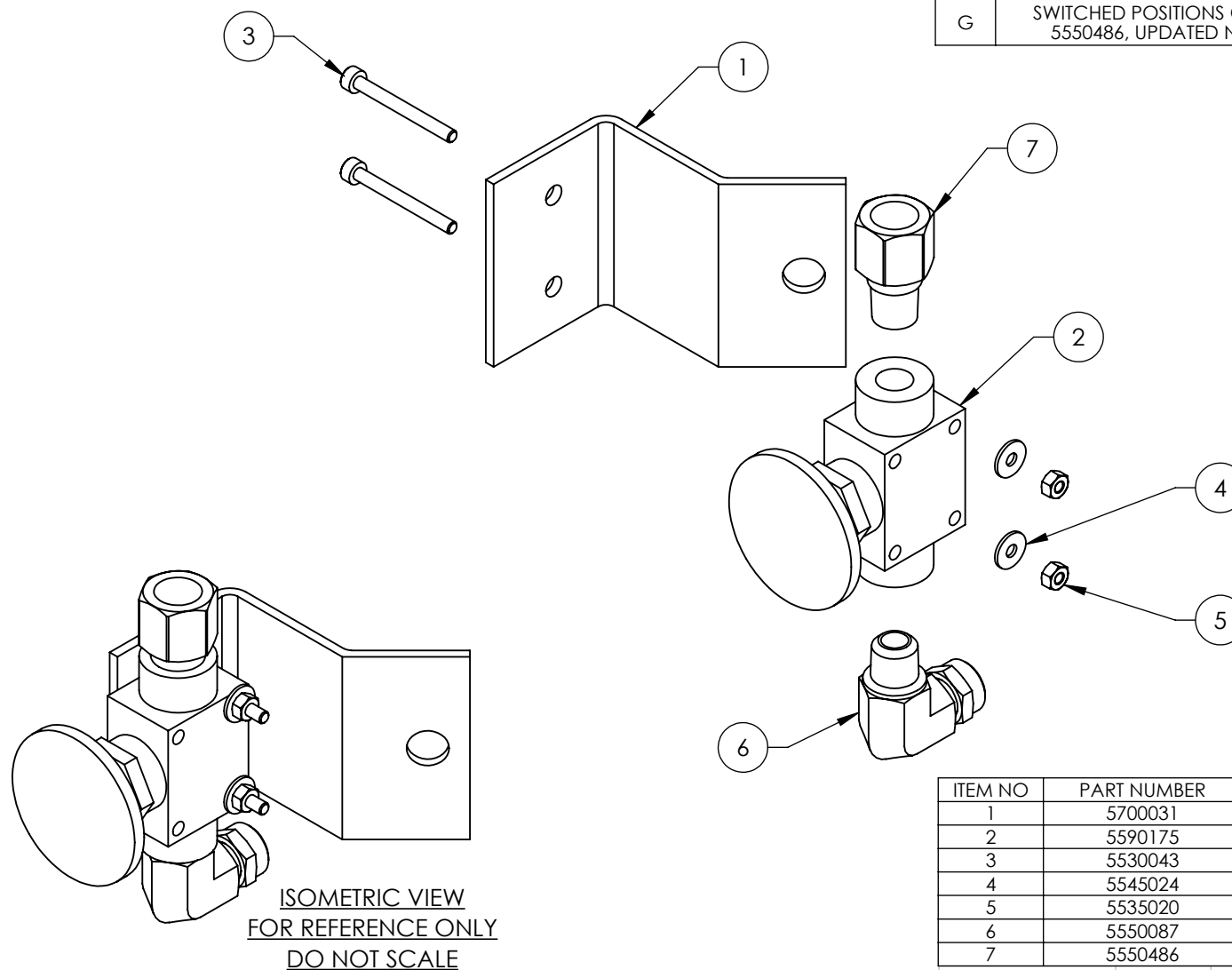
SCALE: 1:30

REV
G

SHEET 1 OF 1

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



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5700031	ZERO ANGLE MOUNTING BRACKET	1	C
2	5590175	PUSH BUTTON AIR VALVE	1	-
3	5530043	SHCS M3 x 0.5 x 30	2	-
4	5545024	WASHER, M3 x 9mm FLAT	2	-
5	5535020	NUT M3 x 0.5 NL	2	-
6	5550087	FTG ELB -04 COMP x -02 NPT	1	-
7	5550486	FTG NPL -02 NPT x -04 F NPT	1	-

DO NOT SCALE DRAWING

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

DIMENSIONS ARE IN MM



THIRD ANGLE PROJECTION



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BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: PUSH BUTTON AIR ASSEMBLY

SIZE DWG. NO. REV
A 5215096 G

SCALE: 2:3

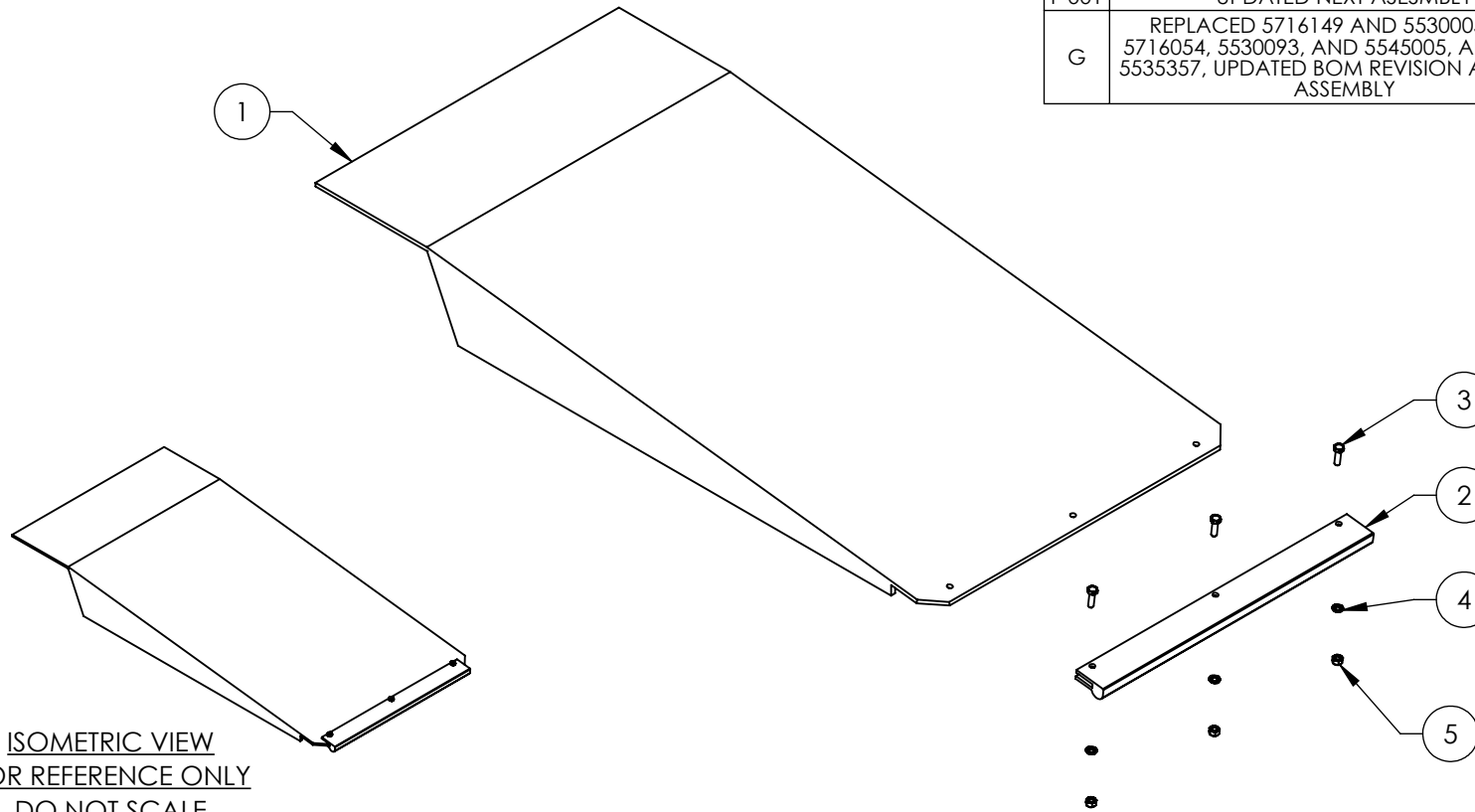
SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
D4-12 SERIES
HD SERIES
HDS SERIES
HDSO SERIES
PL-12000DP

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
E E-001 E-006	UPDATED BOM REVISION UPDATED NEXT ASSEMBLIES UPDATED NEXT ASSEMBLY	08/22/2012 11/19/2012 04/19/2018	TM TM CA	00541 00562 00941
F F-001	UPDATED BOM REVISION AND NEXT ASSEMBLY UPDATED NEXT ASESEMBLY	06/01/2018 08/23/2018	CA TM	00951 00972
G	REPLACED 5716149 AND 5530005 WITH 5716054, 5530093, AND 5545005, ADDED (1) 5535357, UPDATED BOM REVISION AND NEXT ASSEMBLY	09/09/2019	TS	01120



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-7 SERIES
HD-9
HD-9ST
HD-9STX
HD-9XL
HD-9XW
HD-973 SERIES
HD-7500 SERIES
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY		
5245059	5245384	5245243
5245068	5245385	5245244
5245144	5245386	
5245163	5245388	
5245166	5245391	
5245380	5245392	
5245381	5245393	
5245382	5245395	
5245383	5245396	

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600891	HD-7/9/7500 DRIVE UP RAMP WELDMENT	1	E
2	5716054	APPROACH RAMP EDGE GUARD	1	A
3	5530093	HHB M6 x 1.0 x 20mm	3	--
4	5545005	WASHER, M6 x 12mm FLAT	3	--
5	5535357	NUT M6 x 1.0 NL	3	--

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN AC	11/13/2008
CHECKED OR	04/20/2020

THIRD ANGLE PROJECTION



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BendPak
1645 LEMONWOOD DR. SANTA PAULA, CA 93060

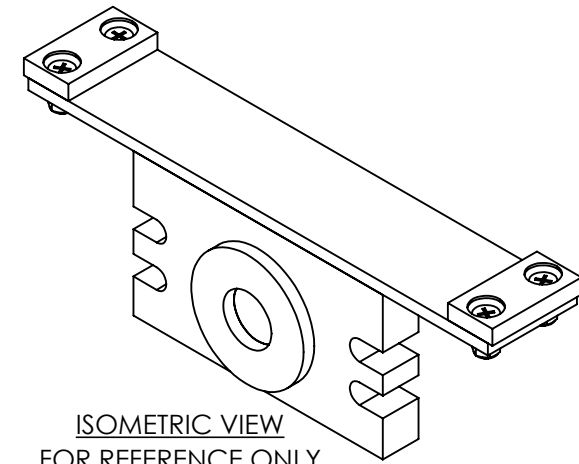
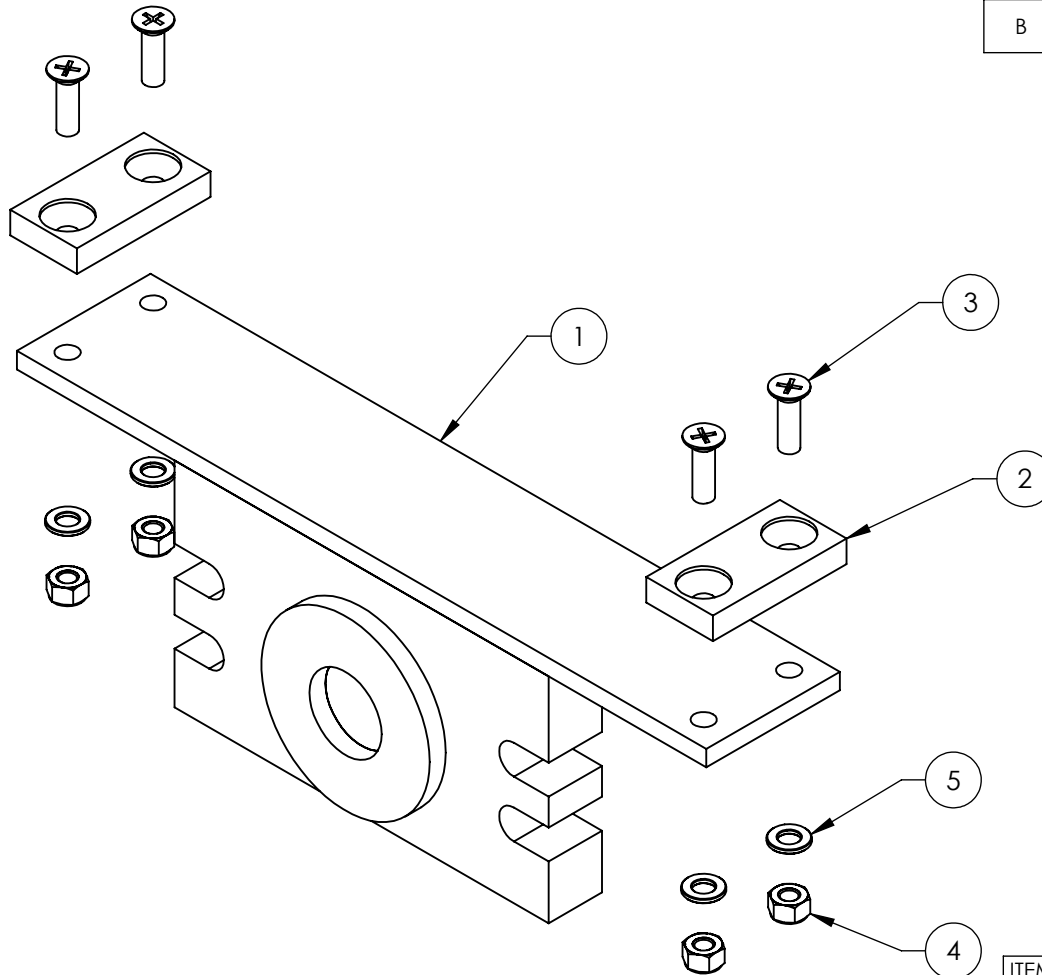
TITLE:
HD-7/9/7500BL DRIVE UP
RAMP ASSEMBLY

SIZE	DWG. NO.	REV
A	5215193	G

SCALE: 1:8

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215129	01/29/2019	TM	01039
B	UPDATED TITLE TO REFLECT WHERE USED, UPDATED BOM REVISIONS AND NEXT ASSEMBLIES	12/20/2019	TM	01120



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-9 SERIES
HD-75BXT
HD-7500BL SERIES
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601303	HD-7500/9 CYLINDER FLANGE ARM WELDMENT	1	B
2	5715031	HD-7500/9/973 CYLINDER CABLE BLOCK ARM SLIDE	2	B
3	5530244	FHPS M6 x 1.0 x 20mm	4	-
4	5535357	NUT M6 x 1.0 NL	4	-
5	5545005	WASHER, M6 x 12mm FLAT	4	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	01/28/2019
CHECKED OR	04/20/2020

THIRD ANGLE PROJECTION



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NAME	DATE
DRAWN TM	01/28/2019
CHECKED OR	04/20/2020

TITLE: HD-7500/9 CYLINDER FLANGE ARM ASSEMBLY

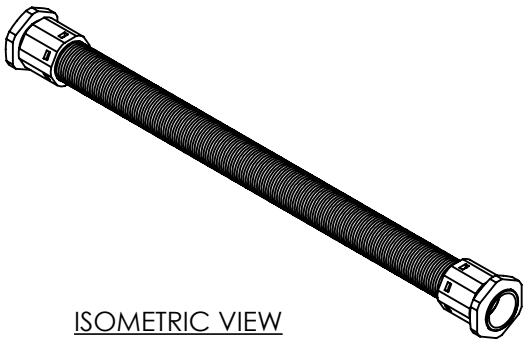
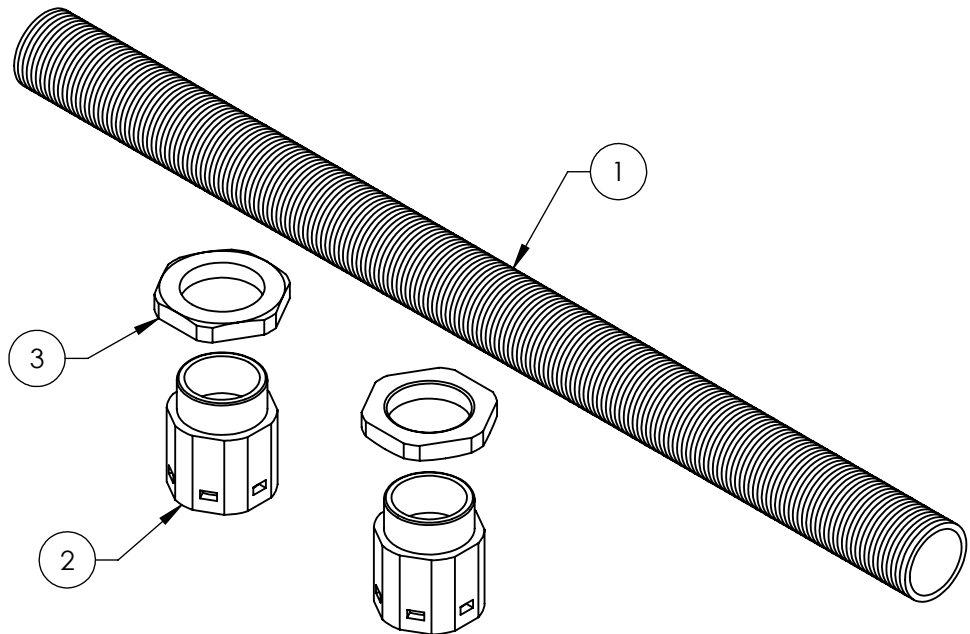
SIZE	DWG. NO.	REV
A	5215820	B

SCALE: 1:2

SHEET 1 OF 1

NEXT ASSEMBLY
5215190
5215192
5215512
5215525
5216058

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5570050, 5570052, 5570239	05/05/2022	TM	01414 PRE A



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
D4-12 SERIES
HD-14T
HD-7500 SERIES
HD-7W
HD-7P
HD-9 SERIES
HD-973 SERIES
HDS-14 SERIES
HDSO-14 SERIES
HDS-18/27/40 SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- SHOWN IN REPRESENTATIONAL FORM ONLY
(*)LENGTH FOR REFERENCE ONLY

NEXT ASSEMBLY		
5250058	5250175	5250289
5250059	5250184	5250290
5250079	5250185	5250294
5250081	5250187	5250295
5250082	5250188	5250336
5250143	5250189	5250337
5250144	5250191	5250338
5250164	5250193	5250364
5250167	5250194	
5250168	5250195	
5250169	5250278	
5250172	5250286	

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5570053	PE FLEX TUBE Ø34.5xØ29	2100mm*	--
2	5555555	WQG1-M36/AD34.5 CONNECTOR	2	--
3	5535050	PLASTIC NUT M36 x 2	2	--

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	05/05/2022
CHECKED OR	05/09/2022

THIRD ANGLE PROJECTION



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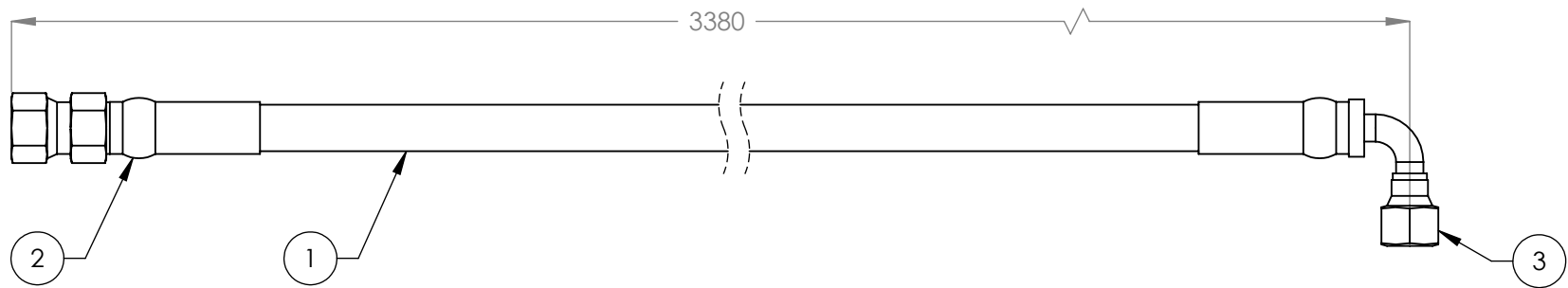
TITLE: FLEX TUBE KIT,
UP TO 2000mm

SIZE	DWG. NO.	REV
A	5216139	A

SCALE: 1:3

SHEET 1 OF 1

REVISION				
REV.	DESCRIPTION	DATE	EDITED BY	ECO#
E	UPDATED NEXT ASSEMBLY, NEXT ASSEMBLIES NOW IN NAME	12/11/2008	AC	00256
E-001	UPDATED NEXT ASSEMBLY	01/12/2009	AC	00174
E-002	UPDATED NEXT ASSEMBLY	07/27/2009	AC	00249
E-003	UPDATED NEXT ASSEMBLY	02/24/2010	AC	00333
F	UPDATED TITLE TO REFLECT WHERE USED, UPDATED NEXT ASSEMBLY	01/20/2011	TM	00439
F-001	UPDATED NEXT ASSEMBLY	06/06/2011	TM	00464
F-002	UPDATED NEXT ASSEMBLIES	11/20/2012	TM	00562
F-003	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
G	REPLACED 5570110 WITH 5570129	01/09/2015	MR	00675
G-001	UPDATED NEXT ASSEMBLY	08/21/2018	TM	00972



WHERE USED
HD-7500BL
HD-9
HD-9XL
HD-9ST
HD-9AE
HD-973P
HD-973P-G
GP-9F
D4-9
D4-12
D4-12A

NOTE: UNLESS OTHERWISE SPECIFIED.

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

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

NEXT ASSEMBLY
5250081
5250167
5250169
5250185
5250188
5250193
5250274
5250294
5250295
5250319
5250336

DO NOT SCALE DRAWING		NAME	DATE	 BendPak® 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
		DRAWN	AC 12/17/2007	
		CHECKED	CA 09/11/2018	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±1.0 0.00 = ±0.25 0.000 = ±0.13		THIRD ANGLE PROJECTION		TITLE: HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm
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.		
		SIZE DWG. NO. A 5570022		REV G
		SCALE: 1:2		SHEET 1 OF 1

PART SPECIFICATION FORM

ACP

BENDPAK Number:	5570129
MRP Description:	1/4" HYDRAULIC HOSE 31 CL-0400X
Date:	05/24/2018
ECO :	00950

1. Engineering Specification

Application:

1/4" HYDRAULIC HOSE

Detailed Description:

ONE or TWO BRAID STEEL WIRE HYDRAULIC HOSE

SIZE: 1/4" / 6mm I.D. MIN
0.53" / 13.4mm O.D. MAX

SPECS: 5700PSI OR 393 BAR WORKING PRESSURE MINIMUM
17100PSI OR 1179 BAR MINIMUM BURST PRESSURE MINIMUM
3" / 80mm MIN BEND RADIUS

COLOR: BLACK

ADDITIONAL CONTACT INFORMATION:

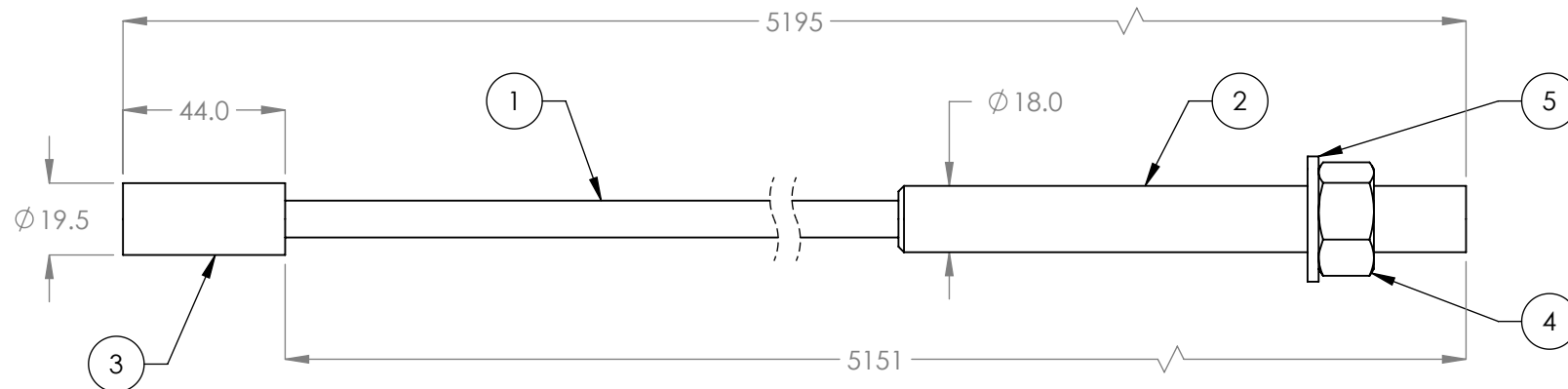
Xin Yurong
Shandong Ningjin High Energy Hose Co., Ltd.
Tel: +86 534-5421821
No. 7, Taishan Rd., Industrial Park, Ningjin County, Shandong, China



2. Vendor Information (Or for Reference)

Approved Vendor	Vendor Part #	Contact #	AUTHORIZED COMPONENT PROVIDER
1) Ningjin Hydraulic Hose Co.	5570129	+86 534-5421821	X
2)			
OR BENDPAK ENGINEERING APPROVED EQUIVALENT			

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595909	06/15/2011	TM	00464
A-001	UPDATED NEXT ASSEMBLIES	11/23/2012	TM	00562
A-002	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
B	UPDATED BOM REVISION	12/21/2017	TM	00909
C	ADDED 5535358 AND 5545342	07/13/2020	TM	01174



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	5135mm*	-
2	5746022	Ø10 THREADED CABLE CONNECTOR	1	D
3	5746021	Ø10 CABLE END CONNECTOR	1	E
4	5535358	NUT M18 x 2.5 NL	1	-
5	5545342	WASHER M18 FLAT	1	-

WHERE USED
HD-9XL

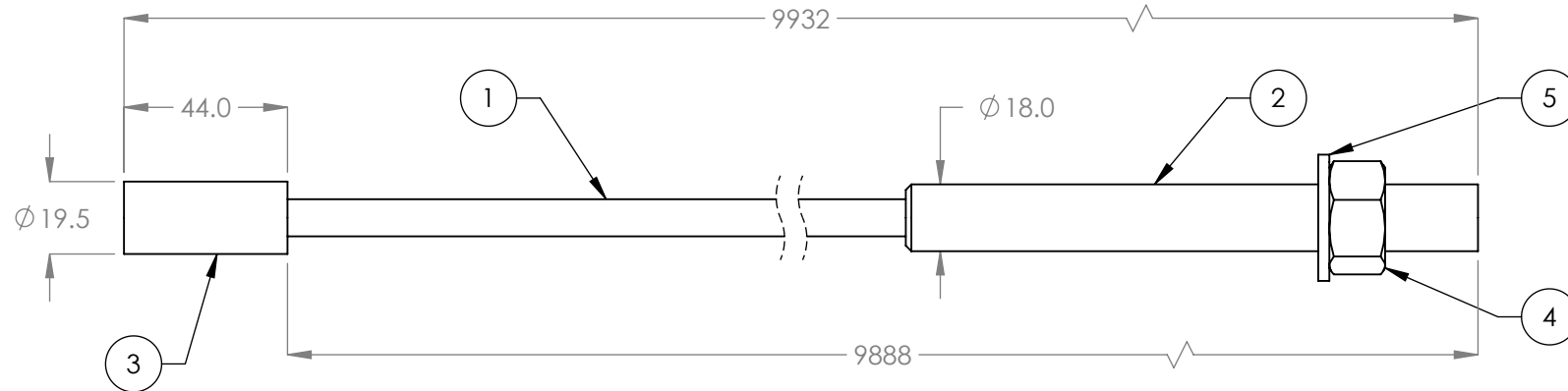
NOTE: UNLESS OTHERWISE SPECIFIED.

- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250169

DO NOT SCALE DRAWING		NAME	DATE
DRAWN		TM	06/15/2011
CHECKED			
THIRD ANGLE PROJECTION			
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			
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:		HD-9XL CABLE ASSEMBLY Ø10 x 5195mm ST	
SIZE DWG. NO.		REV	
A 5595397		C	
SCALE: 1:2		SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595919	06/15/2011	TM	00464
A-001	UPDATED NEXT ASSEMBLIES	11/23/2012	TM	00562
A-002	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
B	UPDATED BOM REVISION	01/10/2018	TM	00909
C	ADDED 5535358 AND 5545342	07/13/2020	TM	01174



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	9872mm*	-
2	5746022	Ø10 THREADED CABLE CONNECTOR	1	D
3	5746021	Ø10 CABLE END CONNECTOR	1	E
4	5535358	NUT M18 x 2.5 NL	1	-
5	5545342	WASHER M18 FLAT	1	-

DO NOT SCALE DRAWING

NAME DATE

DRAWN TM 06/15/2011

CHECKED

THIRD ANGLE PROJECTION



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

PROPRIETARY AND CONFIDENTIAL
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PROHIBITED.

BendPak.
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-9XL CABLE ASSEMBLY
Ø10 x 9932mm ST

SIZE DWG. NO. REV

A 5595399 C

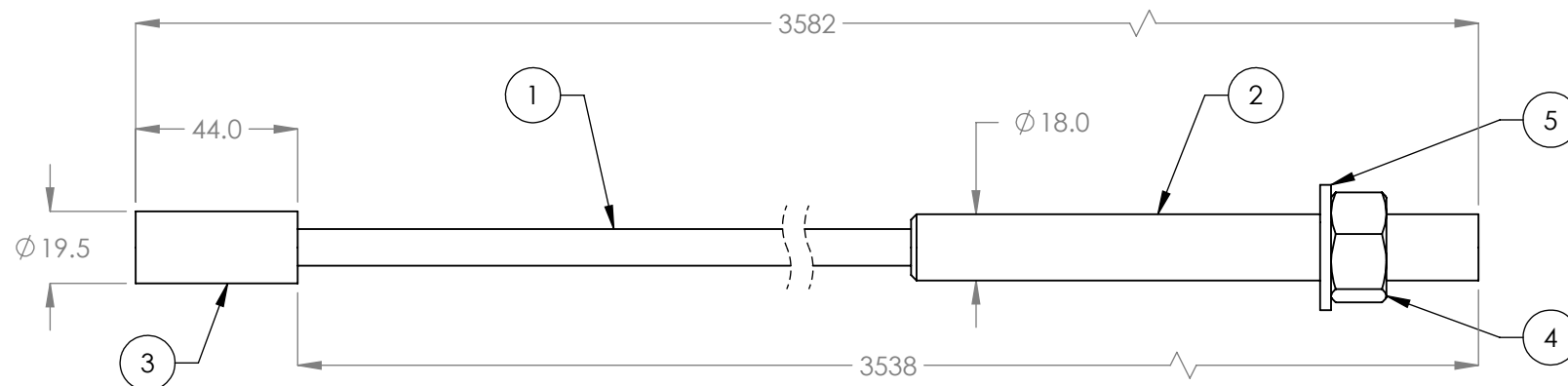
SCALE: 1:2 SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.

- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250169

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595369	11/23/2012	TM	00562
A-001	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
B	UPDATED BOM REVISION	12/21/2017	TM	00909
C	ADDED 5535358 AND 5545342	07/13/2020	TM	01174



WHERE USED
HD-9XL

NOTE: UNLESS OTHERWISE SPECIFIED.

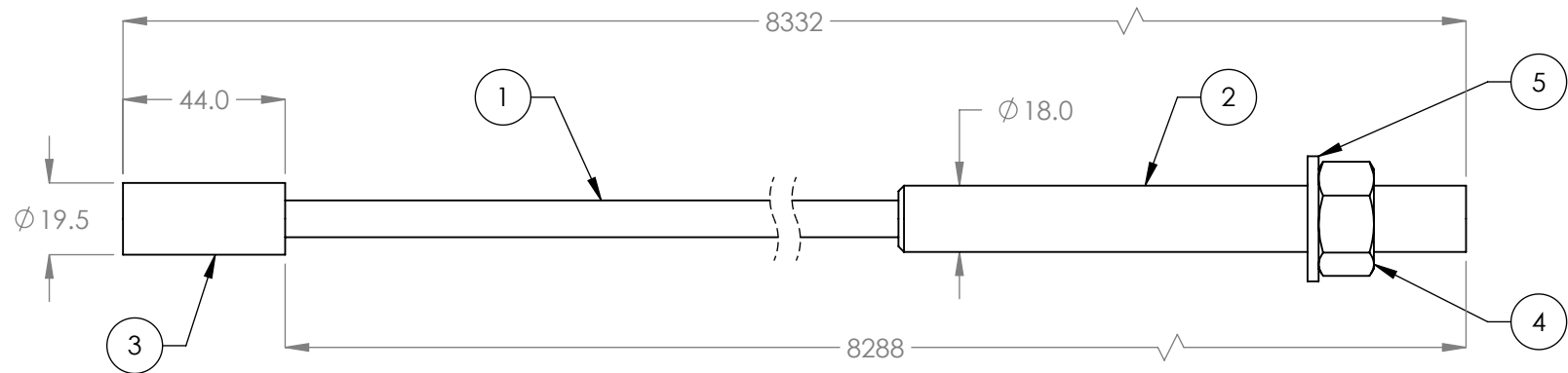
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250169

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	3486mm*	-
2	5746022	Ø10 THREADED CABLE CONNECTOR	1	D
3	5746021	Ø10 CABLE END CONNECTOR	1	E
4	5535358	NUT M18 x 2.5 NL	1	-
5	5545342	WASHER M18 FLAT	1	-

DO NOT SCALE DRAWING		NAME		DATE		 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
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		DRAWN		TM		11/23/2012	
		CHECKED		OR		08/28/2020	
		THIRD ANGLE PROJECTION					
							
		TITLE:					
		HD-9XL CABLE ASSEMBLY Ø10 x 3582mm ST					
		SIZE DWG. NO.				REV	
		A 5595471				C	
		SCALE: 1:2				SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595398	11/23/2012	TM	00562
A-001	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
B	UPDATED BOM REVISION	12/21/2017	TM	00909
C	ADDED 5535358 AND 5545342	07/13/2020	TM	01174



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	8236mm*	-
2	5746022	Ø10 THREADED CABLE CONNECTOR	1	D
3	5746021	Ø10 CABLE END CONNECTOR	1	E
4	5535358	NUT M18 x 2.5 NL	1	-
5	5545342	WASHER M18 FLAT	1	-

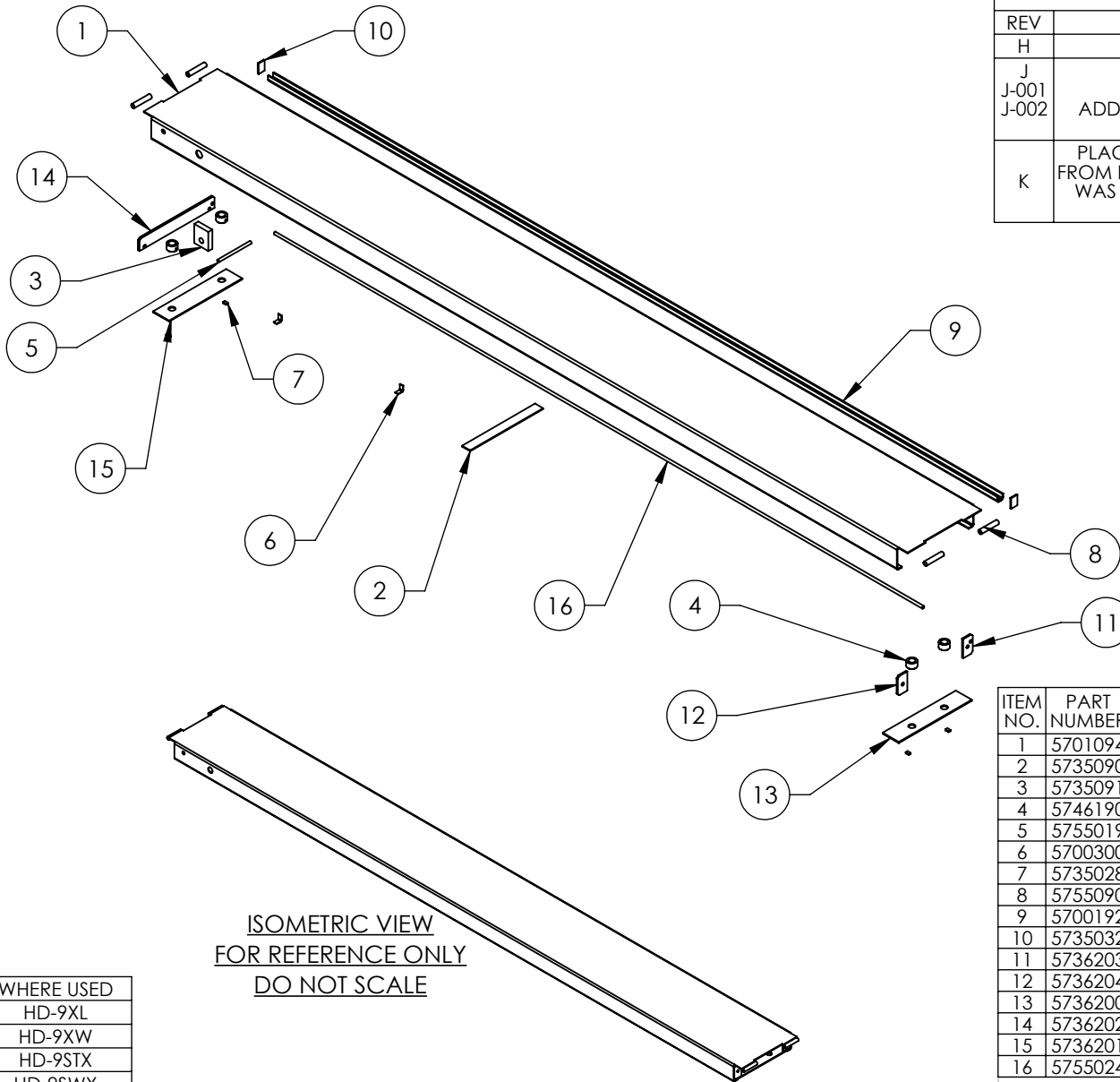
WHERE USED
HD-9XL

NOTE: UNLESS OTHERWISE SPECIFIED.

- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250169

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
DRAWN		TM	11/23/2012			
CHECKED						
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE:		
				HD-9XL CABLE ASSEMBLY Ø10 x 8332mm ST		
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.		SIZE	DWG. NO.	REV
				A	5595472	C
				SCALE: 1:2		SHEET 1 OF 1



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-9XL
HD-9XW
HD-9STX
HD-9SWX
HD-7500BLX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- BREAK AND DEBURR ALL SHARP EDGES 0.3mm
- REMOVE ALL WELD SPLATTER
- DIMENSIONS SHOWN ARE AFTER PAINTING
- PAINT GRAY (RAL-7024) 20% GLOSS

NEXT ASSEMBLY
5215192
5215525

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
H	UPDATED BOM REVISION	08/20/2012	TM	00541
J	UPDATED BOM REVISION	09/02/2014	TM	00664
J-001	ADDED RAL NUMBER TO NOTES	02/21/2017	TM	00798
J-002	ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	02/04/2020	CA	01120
K	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 55 MIN TO EDGE, UPDATED BOM REVISION	12/10/2021	TM	01367

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5701094	HD-7500BLX/9STX/9SWX/ 9XW/9AE EXTENDED RAMP	1	E
2	5735090	HD-7/7500/9 RAMP STRAP	1	C
3	5735091	HD-7500/9 SERIES CYLINDER CLEVIS	1	C
4	5746190	HD-7/7500/9 RAMP SHEAVE BUSHING	4	C
5	5755019	AIR LINE TROUGH Ø13.5 x Ø9.5 x 203	1	B
6	5700300	HYDRAULIC HOSE HOLDER	2	A
7	5735028	PIN STOP	4	B
8	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
9	5700192	HD-7/7500/9 ROLLING BRIDGE BEAM, LONG	1	D
10	5735032	ROLLING JACK RAIL CLOSEOUT	2	C
11	5736203	HD-7500/9/973 RIGHT RAMP BOLT PLATE, 4-SHEAVE	1	D
12	5736204	HD-7500/9/973 LEFT RAMP BOLT PLATE, 4-SHEAVE	1	D
13	5736200	HD-7500/9 RAMP END PLATE, 4-SHEAVE	1	B
14	5736202	HD-7/7500/9 RAMP BOLT PLATE, 2-SHEAVE	1	D
15	5736201	HD-7/7500/9 RAMP END PLATE, 2-SHEAVE	1	B
16	5755024	AIR LINE TROUGH Ø13.5 x Ø9.5 x 4064	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 AC	11/28/2008
CHECKED OR	12/21/2021

THIRD ANGLE PROJECTION



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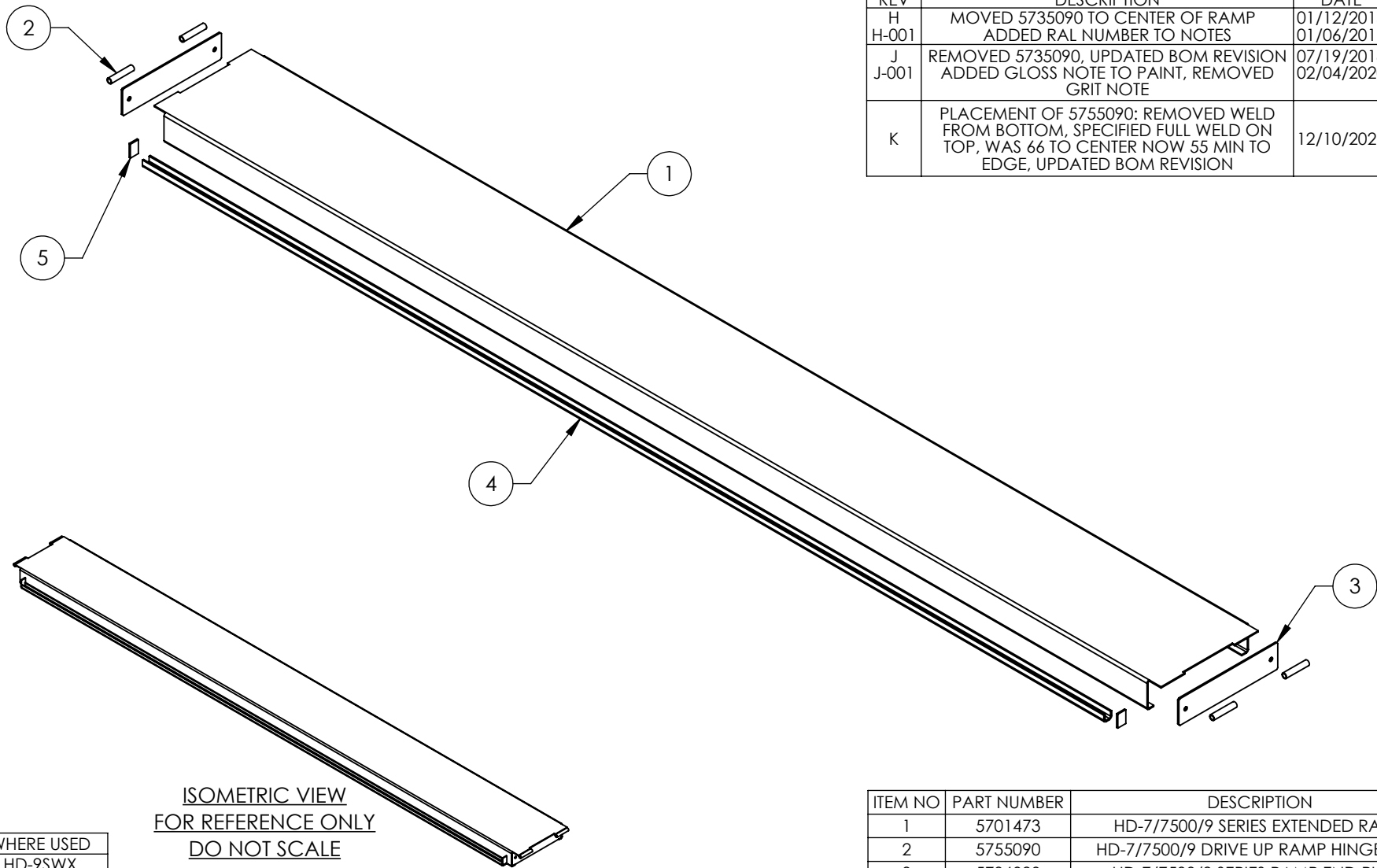
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-9/7500BLX POWER SIDE
WELDMENT

SIZE	DWG. NO.	REV
A	5600192	K

SCALE: 1:30

SHEET 1 OF 4



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-9SWX
HD-9XW
HD-9XL
HD-9STX
HD-7500BLX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
3. REMOVE ALL WELD SPLATTER
4. DIMENSIONS SHOWN ARE AFTER PAINTING
5. PAINT GRAY (RAL-7024) 20% GLOSS

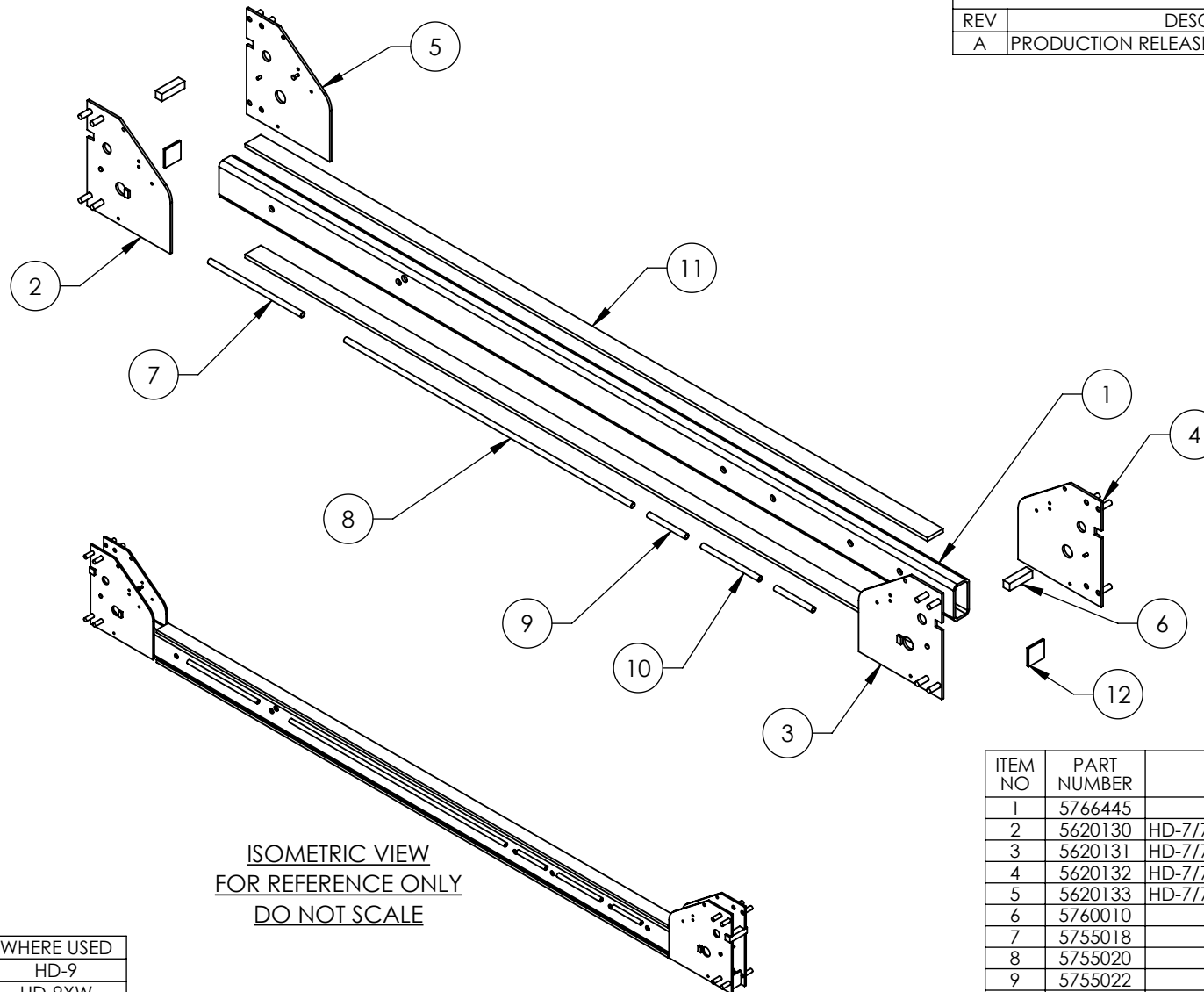
REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
H	MOVED 5735090 TO CENTER OF RAMP	01/12/2015	MR	00675
H-001	ADDED RAL NUMBER TO NOTES	01/06/2017	TS	00798
J	REMOVED 5735090, UPDATED BOM REVISION	07/19/2018	TM	00975
J-001	ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	02/04/2020	CA	01120
K	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 55 MIN TO EDGE, UPDATED BOM REVISION	12/10/2021	TM	01367

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701473	HD-7/7500/9 SERIES EXTENDED RAMP	1	D
2	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
3	5736090	HD-7/7500/9 SERIES RAMP END PLATE	2	D
4	5700192	HD-7/7500/9 ROLLING BRIDGE BEAM, LONG	1	D
5	5735032	ROLLING JACK RAIL CLOSEOUT	2	C

DO NOT SCALE DRAWING		NAME	DATE	 BendPak.		
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		DRAWN	AC	11/05/2008	1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
		CHECKED	OR	12/21/2021		
		THIRD ANGLE PROJECTION				
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED					TITLE: HD-9/7500BLX OFF SIDE RAMP WELDMENT	
		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	5600205
SCALE: 1:20				SHEET 1 OF 3		

NEXT ASSEMBLY
5245079
5245242
5245381
5245382
5245392
5245393

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600715	04/29/2022	TM	01414



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-9
HD-9XW
HD-9XL
HD-973P
HD-973PX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- BREAK AND DEBURR ALL SHARP EDGES 0.3mm
- REMOVE ALL WELD SPLATTER
- DIMENSIONS SHOWN ARE AFTER PAINTING
- PAINT GRAY (RAL-7024) 20% GLOSS

NEXT ASSEMBLY
5216156

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766445	HD-9 CROSSTUBE, LARGE WINDOW	1	A
2	5620130	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #1	1	M
3	5620131	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #2	1	M
4	5620132	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #3	1	M
5	5620133	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #4	1	M
6	5760010	HD-7/9 CROSSTUBE SAFETY BLOCK	2	B
7	5755018	AIR LINE TROUGH Ø13.5 x Ø9.5 x 297	1	C
8	5755020	AIR LINE TROUGH Ø13.5 x Ø9.5 x 918	1	C
9	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
10	5755021	AIR LINE TROUGH Ø13.5 x Ø9.5 x 184	1	B
11	5735460	HD-7/9 CROSSTUBE STRAP	2	A
12	5735073	D4-12, HD-7/9, HDS/HDSO-14 CARRIAGE TIE BLOCK	2	C

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	04/29/2022
CHECKED OR	06/06/2022

THIRD ANGLE PROJECTION



PROPRIETARY AND CONFIDENTIAL
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BendPak.
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

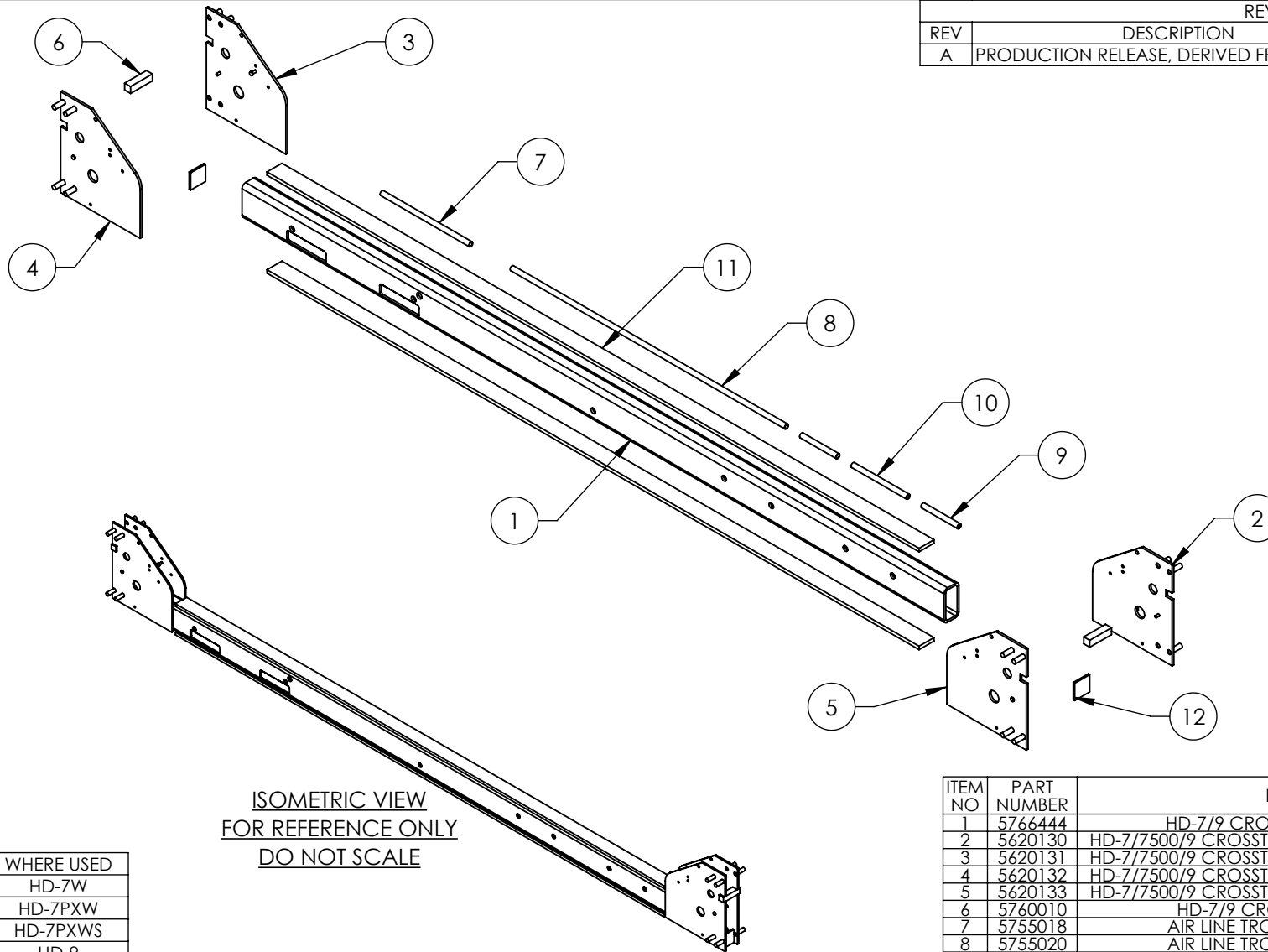
TITLE: HD-9/973P CROSSTUBE
WELDMENT, LARGE WINDOW

SIZE DWG. NO.	REV
A 5601821	A

SCALE: 1:15

SHEET 1 OF 2

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600714	04/29/2022	TM	01414



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-7W
HD-7PXW
HD-7PXWS
HD-9
HD-9XW
HD-9XL
HD-973P
HD-973PX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
3. REMOVE ALL WELD SPLATTER
4. DIMENSIONS SHOWN ARE AFTER PAINTING
5. PAINT GRAY (RAL-7024) 20% GLOSS

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766444	HD-7/9 CROSSTUBE, SMALL WINDOW	1	A
2	5620130	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #1	1	M
3	5620131	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #2	1	M
4	5620132	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #3	1	M
5	5620133	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #4	1	M
6	5760010	HD-7/9 CROSSTUBE SAFETY BLOCK	2	B
7	5755018	AIR LINE TROUGH Ø13.5 x Ø9.5 x 297	1	C
8	5755020	AIR LINE TROUGH Ø13.5 x Ø9.5 x 918	1	C
9	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
10	5755021	AIR LINE TROUGH Ø13.5 x Ø9.5 x 184	1	B
11	5735460	HD-7/9 CROSSTUBE STRAP	2	A
12	5735073	D4-12, HD-7/9, HDS/HDSO-14 CARRIAGE TIE BLOCK	2	C

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	04/29/2022
CHECKED OR	06/06/2022

THIRD ANGLE PROJECTION



PROPRIETARY AND CONFIDENTIAL
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THE WRITTEN PERMISSION OF BENDPAK INC. IS
PROHIBITED.

BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-7/9/973P CROSSTUBE
WELDMENT, SMALL WINDOW

SIZE DWG. NO. REV

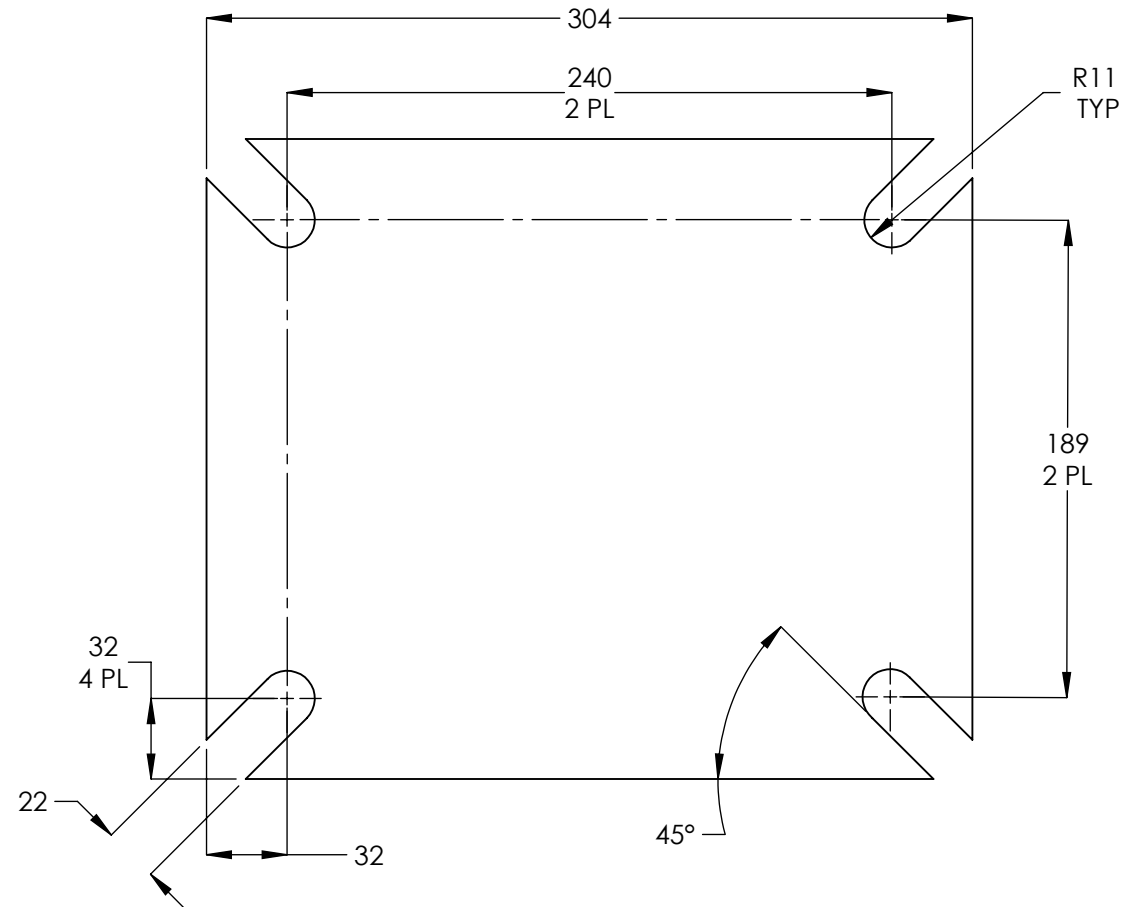
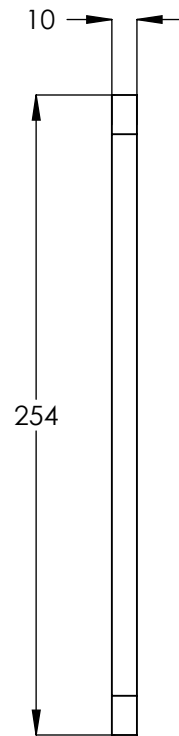
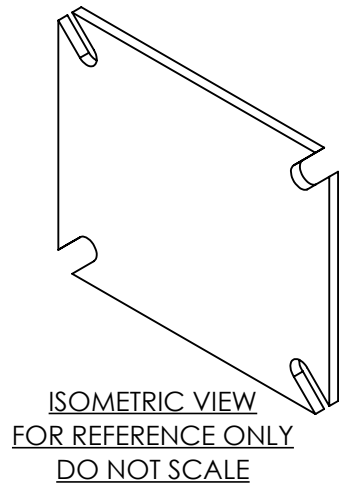
A 5601822 **A**

SCALE: 1:15

SHEET 1 OF 2

NEXT ASSEMBLY
5216155

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5731632	01/20/2017	TS	00798
A-001	UPDATED NEXT ASSEMBLIES	04/20/2018	CA	00941



WHERE USED
HD-7 SERIES
HD-9 SERIES
HD-14T
HDS-14 SERIES
D4-12 SERIES
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
3. **MATERIAL:** HR ASTM A36 OR Q235 GB/T 700

NEXT ASSEMBLY		
5601126	5601158	5601780
5601127	5601159	
5601133	5601410	
5601134	5601739	
5601135	5601740	
5601136	5620605	
5601137	5620606	
5601138	5620669	
5601139	5620670	
5601140	5601779	

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
DRAWN		TS	01/20/2017		
CHECKED		CA	04/24/2018		
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		THIRD ANGLE PROJECTION		TITLE:	
				4 POST BASE PLATE	
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		5731045	A
		SCALE: 1:3		SHEET 1 OF 1	

PART SPECIFICATION FORM

BENDPAK Number:	5900123
MRP Description:	HD-9 INSTALLATION MANUAL
Date:	03/30/2020
ECO :	--

1. Engineering Specification

Application:

INSTALLATION MANUAL

Detailed Description:



1645 Lemonwood Dr.
 Santa Paula, CA. 93060 USA
 Toll Free: (800) 253-2363
 Tel: (805) 933-9970
 www.bendpak.com

HD-9 Four-Post Lift

Installation and Operation Manual

Manual P/N 5900123 — Manual Revision M1 — March 2020

Models:

- HD-9ST
- HD-9STX
- HD-9
- HD-9XL
- HD-9XW



HD-9ST shown.

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 installation and operation, you agree that you fully understand the contents of this manual.

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 279mm or in between)
- **Binding.** Saddle stitched
- **Paper.** 100 to 120 gsm (27 to 32 pound), uncoated

2. Vendor Information

Approved Vendor	Vendor Part #	Contact #	Preferred Vendor
1)			

4 Post Lifts Product Decal Positioning



Total of 6

PN 5905311

BPK Post Branding Decal-Large.pdf:

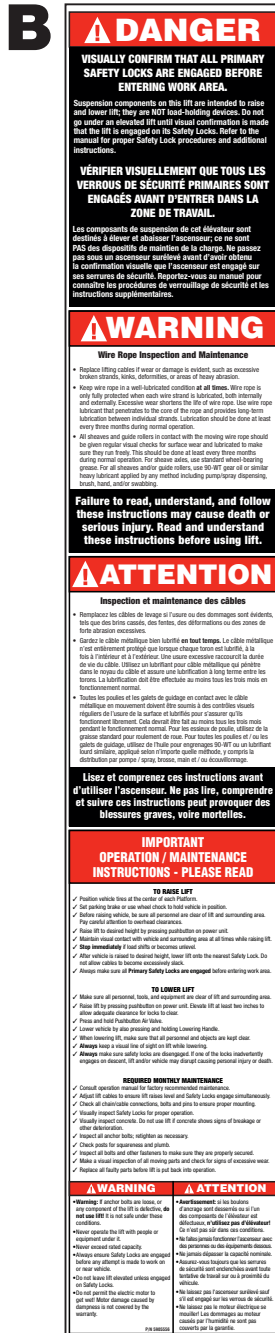
Size: 4.25"W x 38"H

Material: 4 Mil Clear Adhesive PET

Finish: Matte Overlamine (No gloss)

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 laminate non-glare medium matte over-laminate (No gloss) for abrasion, chemical and ultra violet protection.



PN 5905556

4-Post Safety-Operation Decal FRE-ENG.pdf:

Size: 4"W x 24"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-laminate (No gloss) for abrasion, chemical and ultra violet protection.



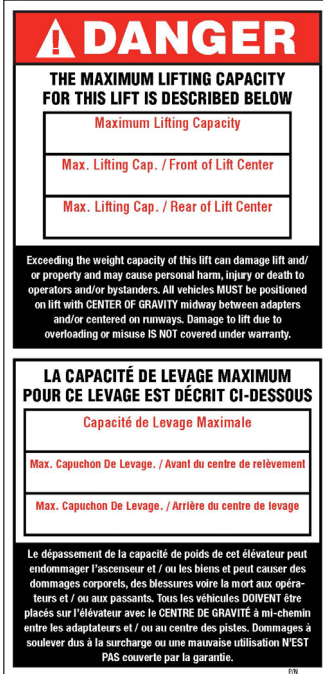
PN 5905103

ALI_4_Post_labels.pdf:
(Order Labels from ALI)

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

***D**



P/N 5905401 - Max Cap. Danger 7k
 P/N 5905695 - Max. Cap. Danger 7500
 P/N 5905402 - Max Cap. Danger 9k
 P/N 5905557 - Max. Cap. Danger 14K
 P/N 5905406 - Max Cap. Danger 18k
 P/N 5905407 - Max. Cap. Danger 27K
 P/N 5905408 - Max. Cap. Danger 35K
 P/N 5905068 - Max. Cap. Danger 37K
 P/N 5905409 - Max. Cap. Danger 40K

***Max. Cap. Danger ENG-FRE.pdf:**

Size: 4"W x 8.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-lamine (No gloss) for abrasion, chemical and ultra violet protection.

***DEPENDS ON LIFT
MODEL AND CAPACITY**

***E**



***NRTL_Lifting_Cap_ENG-FRE_.pdf:**

Size: 4.5"W x 3.25"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

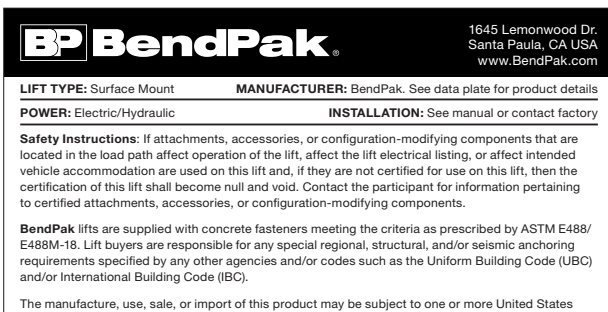
Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-lamine (No gloss) for abrasion, chemical and ultra violet protection.

P/N 5905645 - NRTL_Lifting_Cap_Label_7K
 P/N 5905700 - NRTL_Lifting_Cap_Label_7500
 P/N 5905650 - NRTL_Lifting_Cap_Label_9k
 P/N 5905665 - NRTL_Lifting_Cap_Label_14k
 P/N 5905675 - NRTL_Lifting_Cap_Label_18k
 P/N 5905680 - NRTL_Lifting_Cap_Label_27k
 P/N 5905685 - NRTL_Lifting_Cap_Label_35K
 P/N 5905067 - NRTL_Lifting_Cap_Label_37K
 P/N 5905690 - NRTL_Lifting_Cap_Label_40K

F



Product_Data_Label_5905940-New.pdf: PN 5905940

Size: 4.5"W x 2.3"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-lamine (No gloss) for abrasion, chemical and ultra violet protection.

G



ALI_Notice_Label.jpg

PN 5905377

Size: 3"W x 1.75"H

(Order Label from ALI)

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

H



Slipper_When_Wet_Label-5905138.pdf: PN 5905138

Size: 4.5"W x 2.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or

300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-laminate (No gloss) for abrasion, chemical and ultra violet protection.

I



ALI Gold Label - MET C-US PN 5905654

****FOR ALI APPROVED LIFTS ONLY**

J

BP BendPak Santa Paula, CA USA www.bendpak.com	
MODEL NUMBER	
DESCRIPTION	
LIFT CAPACITY	DATE CODE
ROLLING JACK MAX CAP.	MAX PSI / BAR
VOLTAGE	SERIAL NUMBER
☐ 110-240V, 50-60 Hz, 1 Ph ☐ 208-240V, 50-60 Hz, 1 Ph ☐ 380-415V, 50-60 Hz, 3 Ph ☐ 208-440V, 50-60 Hz, 3 Ph	UPC
DANGER! Disconnect Power Before Servicing WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905953	

PN 5905953

2017_Serial_Tag-D.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

CE APPROVED LIFTS ONLY

K

BP BendPak Santa Paula, CA USA www.bendpak.com	
MODEL NUMBER	
DESCRIPTION	
LIFT CAPACITY	DATE CODE
ROLLING JACK MAX CAP.	MAX PSI / BAR
VOLTAGE	SERIAL NUMBER
☐ 110-240V, 50-60 Hz, 1 Ph ☐ 208-240V, 50-60 Hz, 1 Ph ☐ 380-415V, 50-60 Hz, 3 Ph ☐ 208-440V, 50-60 Hz, 3 Ph	UPC
DANGER! Disconnect Power Before Servicing WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905952	

PN 5905952

2017_Serial_Tag-C.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

NON-CE APPROVED LIFTS ONLY

IMPORTANT: Please use materials as instructed

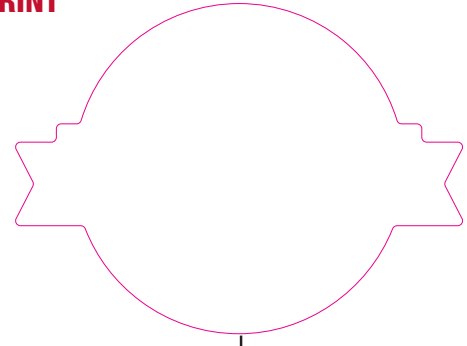
4 Post Lifts Product Decal Positioning

L



GRAY DOES NOT PRINT

PN 5906044



DIE-CUT LINE
DOES NOT PRINT

American_Owned_50_Years_Logo.pdf:

Trim: 4"W x 3"H

Material: 4 Mil. Permanent White Adhesive Vinyl

Ink: U.V. protected CMYK 4/C Process

Finish: Matte Overlamine (No Gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear Laminate non-glare medium matte over laminate for abrasion, chemical, and ultra violet protection

M

CALIFORNIA PROPOSITION 65



WARNING

WARNING! This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. ALWAYS use this product in accordance with the manufacturer's instructions.

For more information, go to
www.p65warnings.ca.gov.

PN 5905775

Prop_65_Label.pdf:

Size: 1.5"W x 1.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

Lamination: Clear laminate non-glare medium matte over-lamine (No gloss) for abrasion, chemical and ultra violet protection.

PN 5905775

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

**SEE NEXT PAGE
FOR LABEL
PLACEMENT HEIGHT**

****FOR ALL APPROVED
LIFTS ONLY**

M, E, C

**Back of Post
(Top to Bottom)**

**G, D, I,
J or K, F**

**Front of Post
(Top to Bottom)**

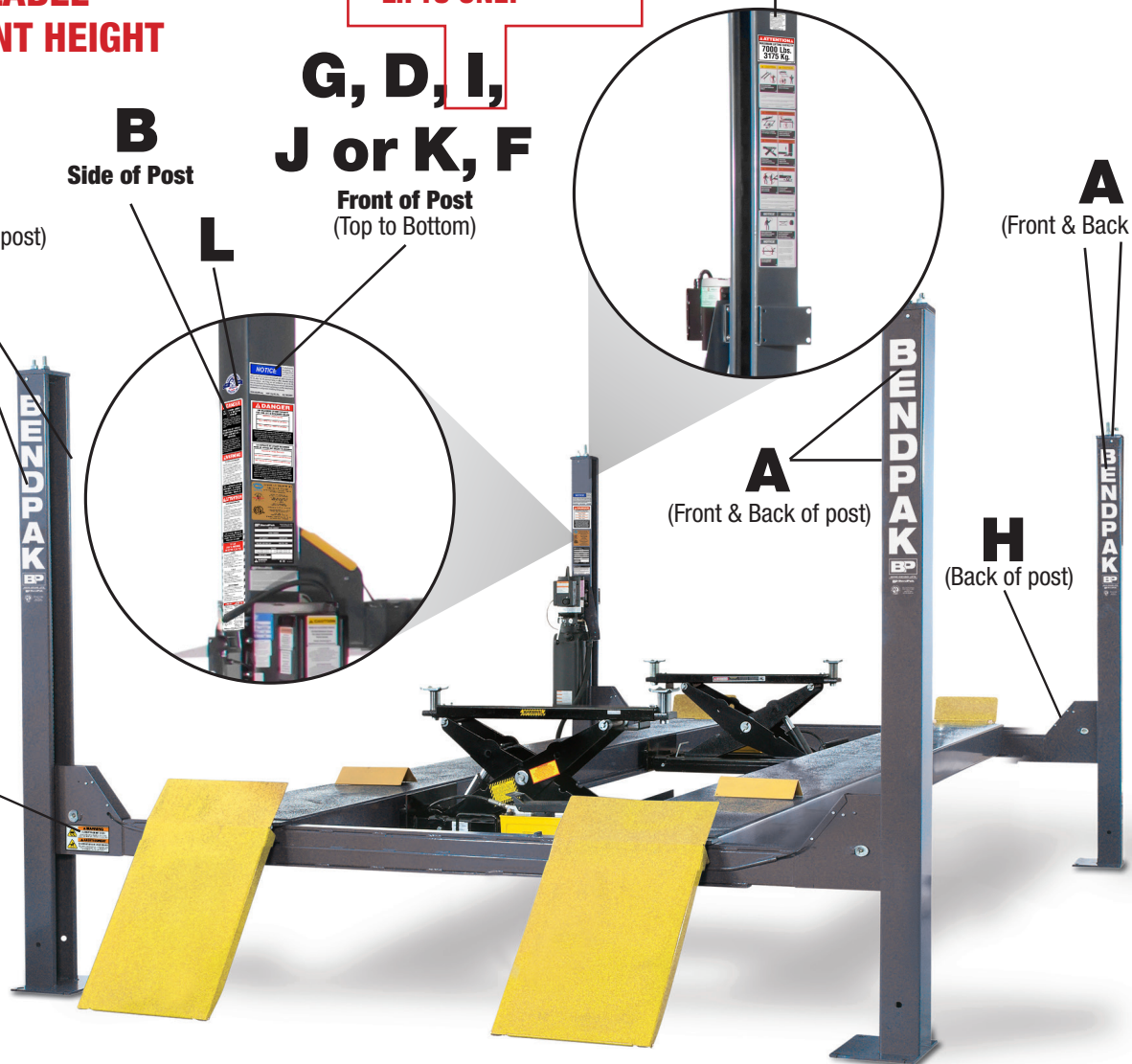
B
Side of Post

A
(Front & Back of post)

A
(Front & Back of post)

H
(Back of post)

H
(Also on other side of lift)



4 Post Lifts Product Decal Positioning

Views of Powerside Post

BACK OF POST

SIDE OF POST

FRONT OF POST

