

Service Manual

SERVICE PARTS & DIAGRAMS

BENDPAK

PL-12000DP

PRODUCT SKU

5175547

DRAWING Nº

5260663

CATEGORY

Parking Lift

REV

Version F

DATE

12.09.2022



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

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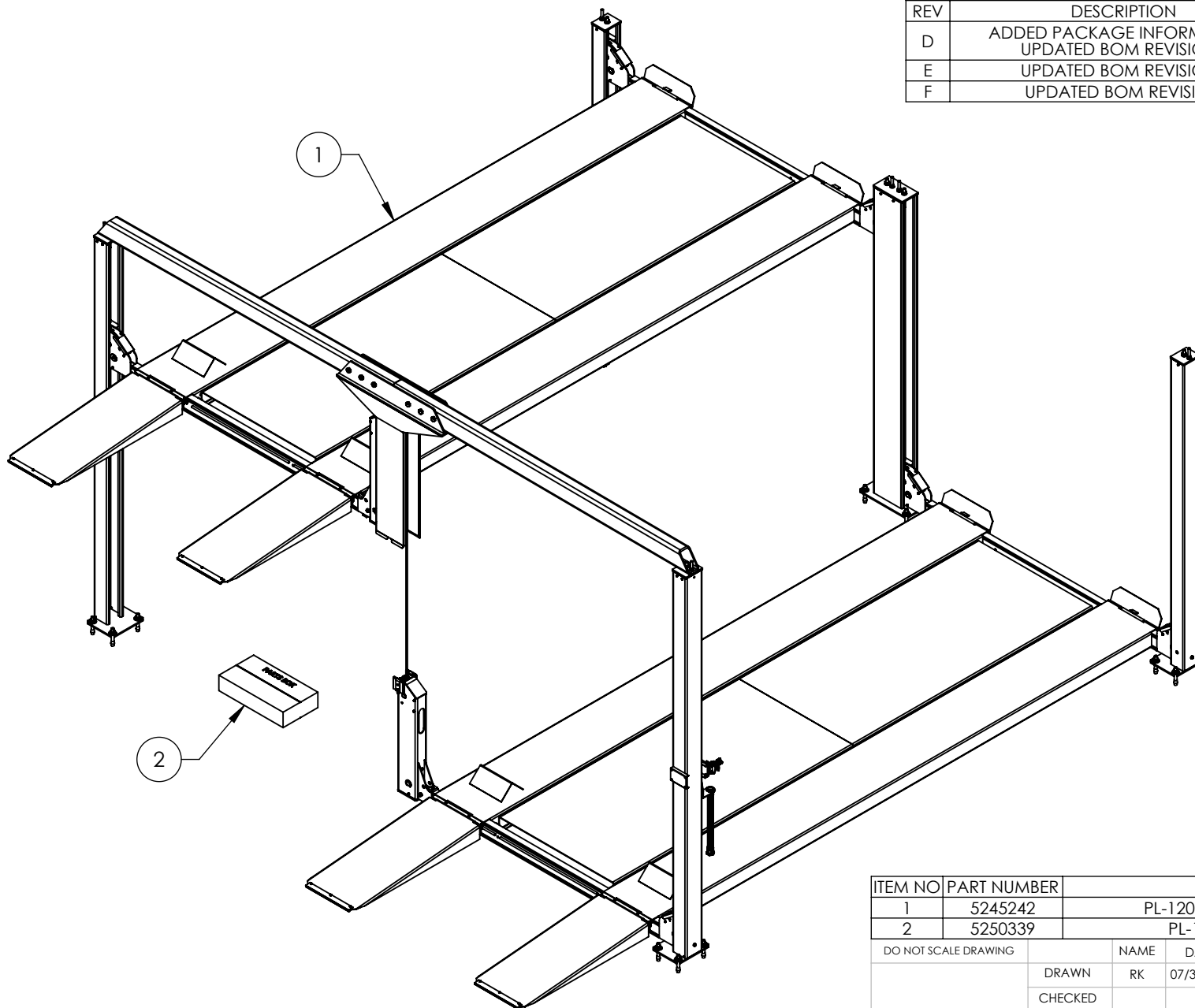
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bpkexports@bendpak.com

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
D	ADDED PACKAGE INFORMATION, UPDATED BOM REVISIONS	07/26/2022	TM	01428
E	UPDATED BOM REVISIONS	09/22/2022	CA	01444
F	UPDATED BOM REVISION	11/21/2022	CA	01457



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	5245242	PL-12000DP SUPERSTRUCTURE	1	E
2	5250339	PL-12000DP PARTS BOX	1	E

DO NOT SCALE DRAWING

NAME DATE

DRAWN RK 07/30/2021

CHECKED

THIRD ANGLE PROJECTION

DIMENSIONS ARE IN MM



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

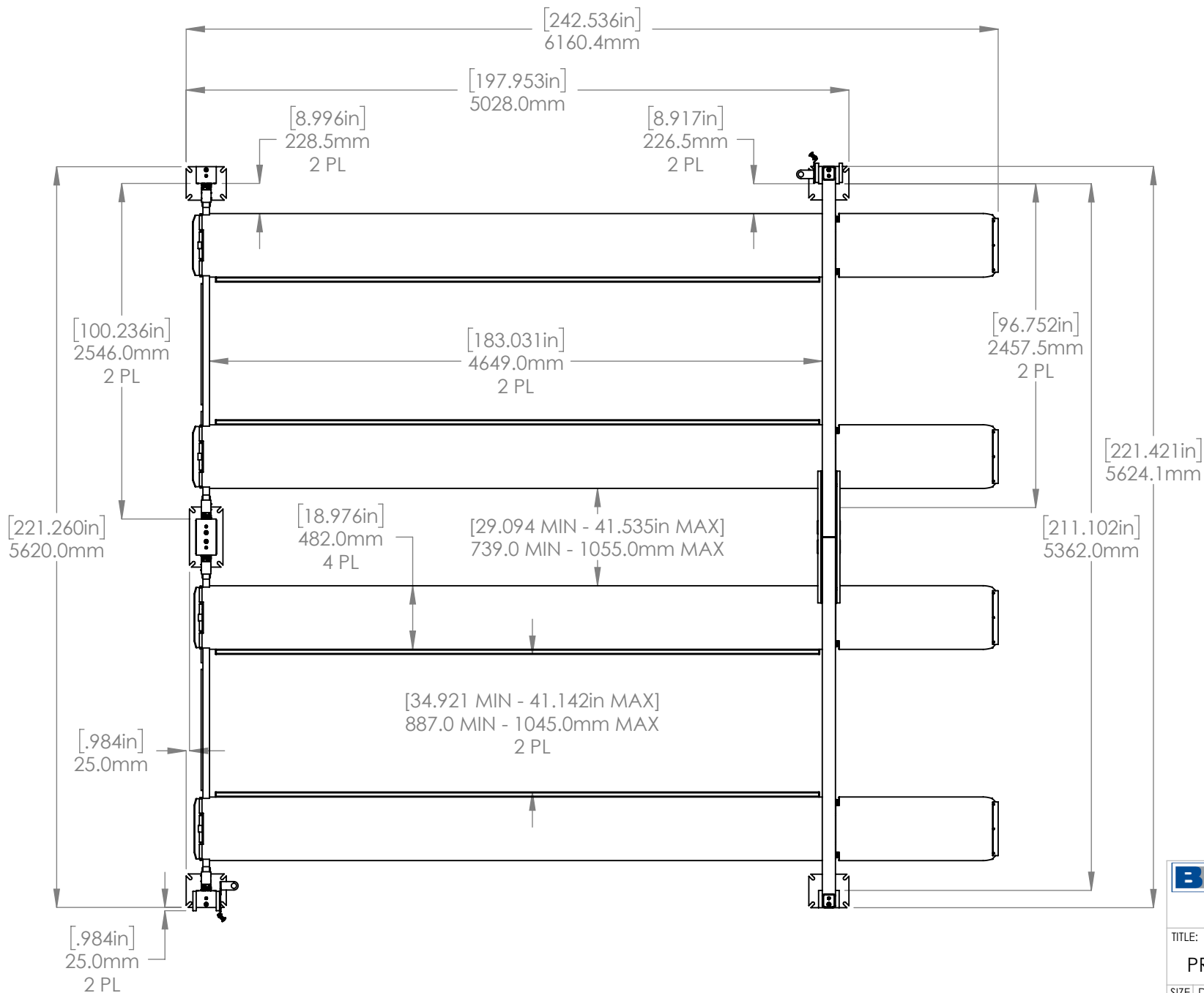
TITLE: PL-12000DP
PRODUCTION LIFT VER A

SIZE DWG. NO. REV

A 5260663 F

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SHEET 1 OF 5



BP BendPak.

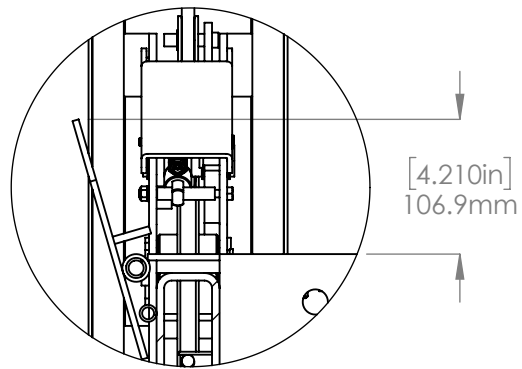
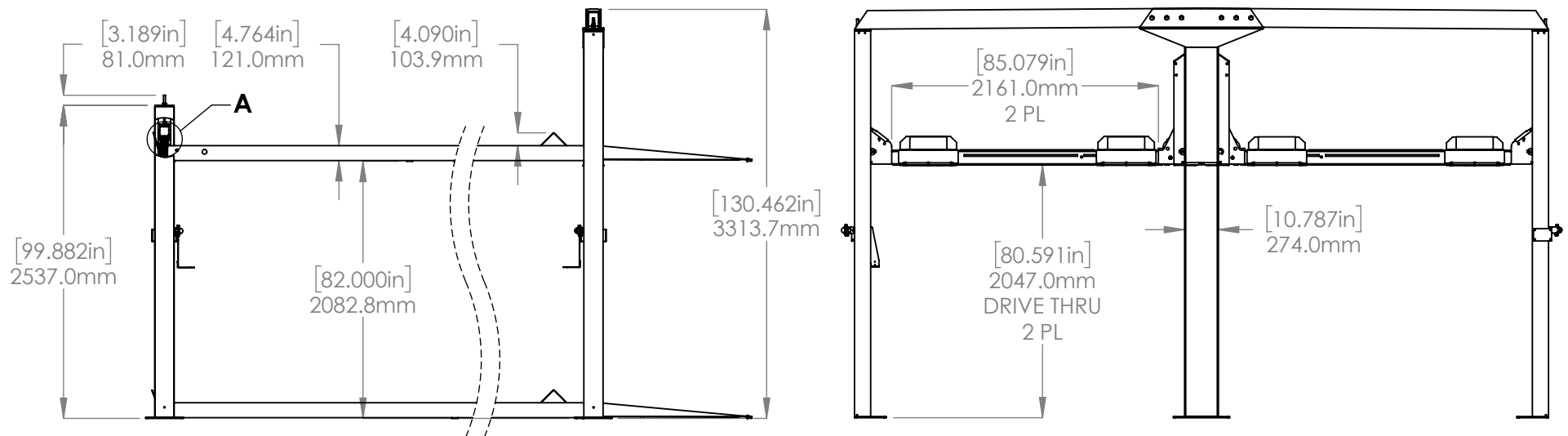
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: PL-12000DP
PRODUCTION LIFT VER A

SIZE	DWG. NO.	REV
A	5260663	F

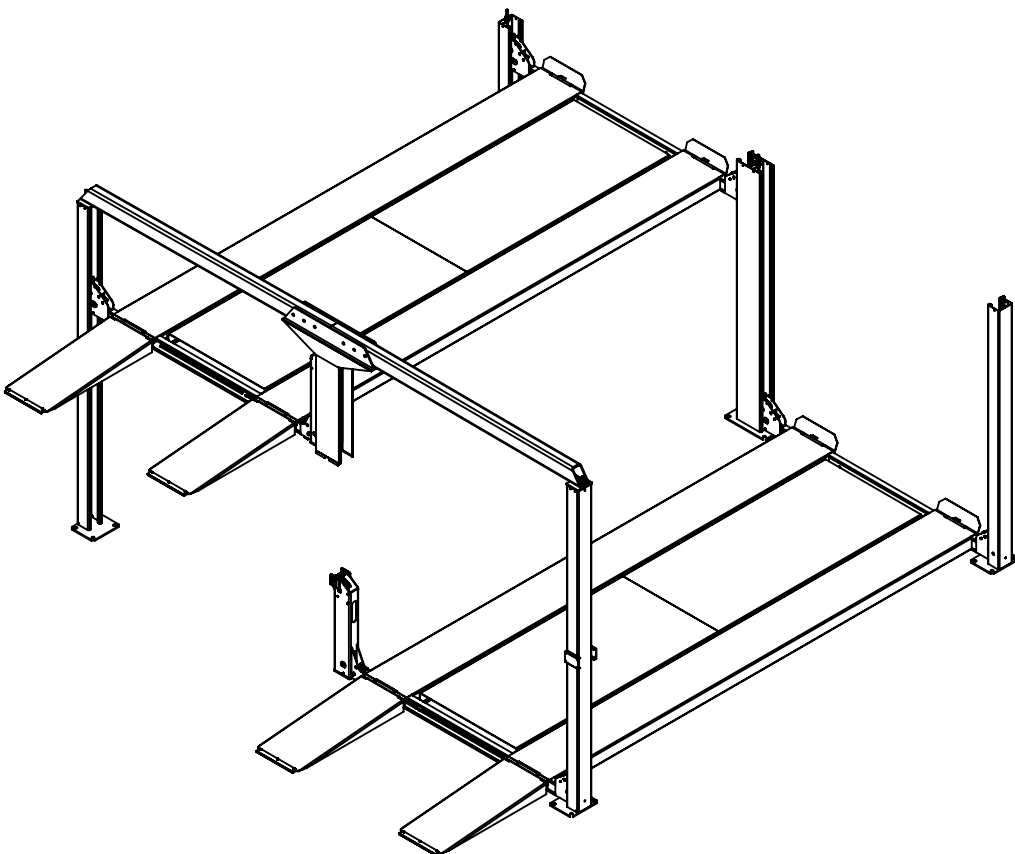
SCALE: 1:42

SHEET 2 OF 5



DETAIL A
SCALE 1 : 6

BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: PL-12000DP PRODUCTION LIFT VER A		
SIZE	DWG. NO.	REV
A	5260663	F
SCALE: 1:50		SHEET 3 OF 5



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	ADDED 5601769, UPDATED BOM REVISIONS, UPDATED TITLE TO REFLECT MARKETING	02/01/2022	CA	01381
D	REPLACED 5215621 WITH 5216155, 5215622 WITH 5216156, 5210209 WITH 5210208, 5215192 WITH 5216188, UPDATED BOM REVISIONS	07/26/2022	TM	01428
E	REPLACED 5215193 WITH 5174700, UPDATED BOM REVISIONS	09/22/2022	CA	01444

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601134	HD-7/9/7500 POWER SIDE POST WELDMENT	1	B
2	5601739	PL-12000DP POST WELDMENT, TALL	1	A
3	5601740	PL-12000DP POWER POST WELDMENT, TALL	1	A
4	5601133	HD-7/9/7500 OFF SIDE POST WELDMENT	1	B
5	5216155	HD-7/9/973P, PL-12000 CROSSTUBE ASSEMBLY, SMALL WINDOW	1	A
6	5216156	HD-9/973P, PL-12000 CROSSTUBE ASSEMBLY, LARGE WINDOW	1	A
7	5216082	PL-12000DP REAR CROSSTUBE ASSEMBLY, SMALL WINDOW	1	E
8	5216083	PL-12000DP REAR CROSSTUBE ASSEMBLY, LARGE WINDOW	1	E
9	5216188	PL-12000DP POWER SIDE RAMP ASSEMBLY	2	A
10	5600205	HD-9/7500BLX OFF SIDE RAMP WELDMENT	2	K
11	5601741	PL-12000DP TOP TUBE WELDMENT, RIGHT	1	C
12	5601769	PL-12000DP TOP TUBE WELDMENT, LEFT	1	B
13	5601742	PL-12000DP SHORT POST WELDMENT	1	C
14	5601743	PL-12000DP DOUBLE POST WELDMENT, FULL	1	B
15	5601736	PL-12000DP REAR SAFETY LADDER WELDMENT, TALL	2	C
16	5601737	PL-12000DP SAFETY LADDER WELDMENT	4	C
17	5601738	PL-12000DP CENTER SAFETY LADDER WELDMENT, SHORT	2	B
18	5545025	WASHER, M16 x 30mm FLAT	8	-
19	5535008	NUT M16 x 2 NL	16	-
20	5701783	PLASTIC RAMP COVER, 1040.5mm	16	B
21	5210208	HD-7/9/HDSO-14 WIDE ALUMINUM SOLID DECK KIT	2	E
22	5600890	HD-7/7500/9, PL-12000 TIRE STOP PLATE WELDMENT	4	F
23	5174700	HD-7/9 EXTENDED ALUMINUM APPROACH RAMP ASSEMBLY	4	C

WHERE USED
PL-12000DP

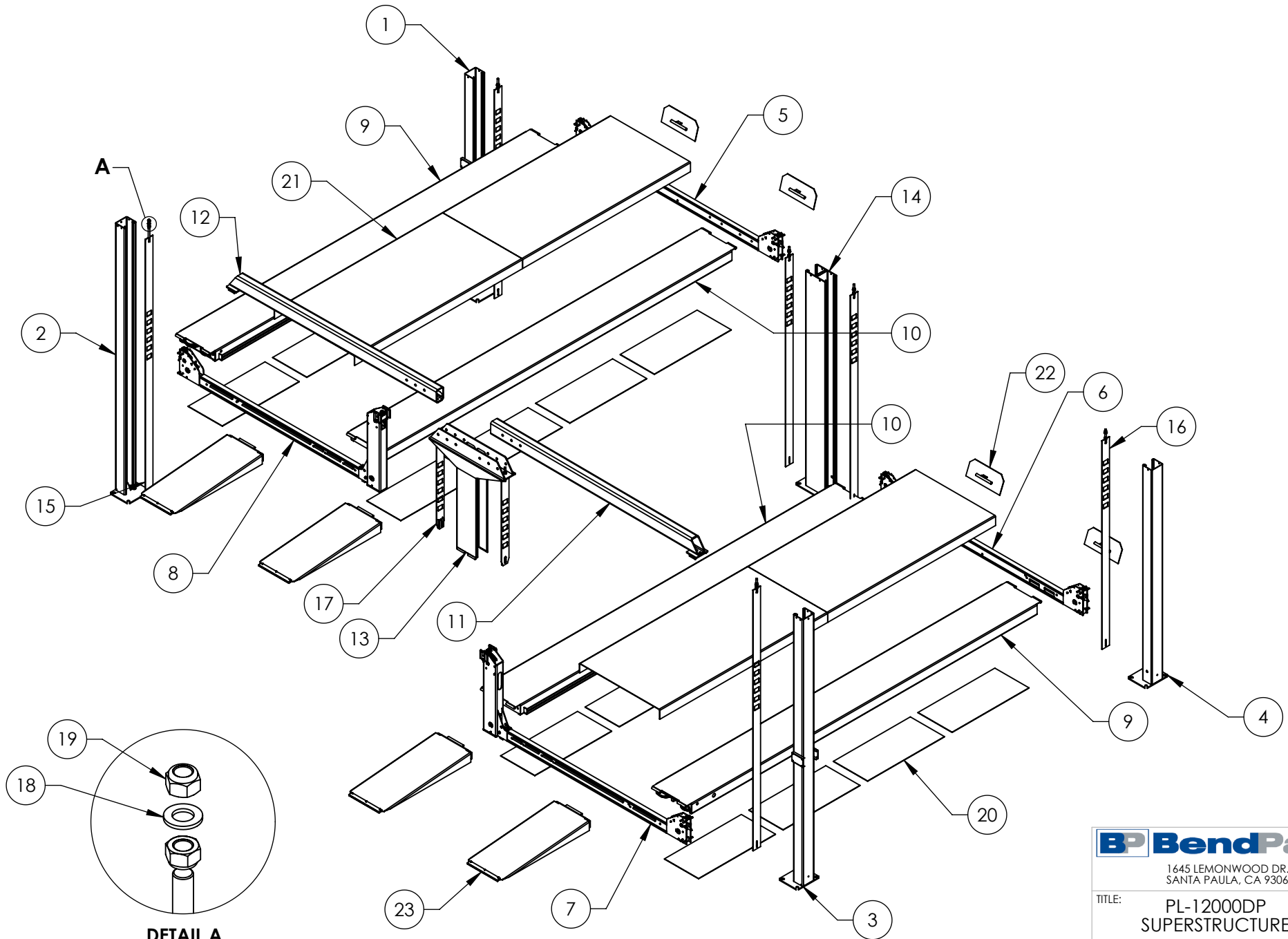
NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
3. THREAD M16 HARDWARE ONTO LADDER BOLTS AS SOWN

NEXT ASSEMBLY
5260663

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	10/06/2021	
CHECKED				
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: PL-12000DP SUPERSTRUCTURE SIZE DWG. NO. A 5245242 REV E
				SCALE: 1:60 SHEET 1 OF 2

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BP BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

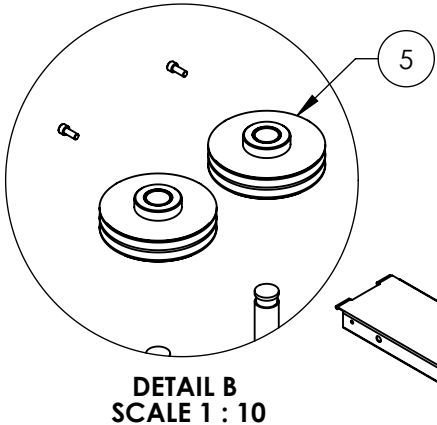
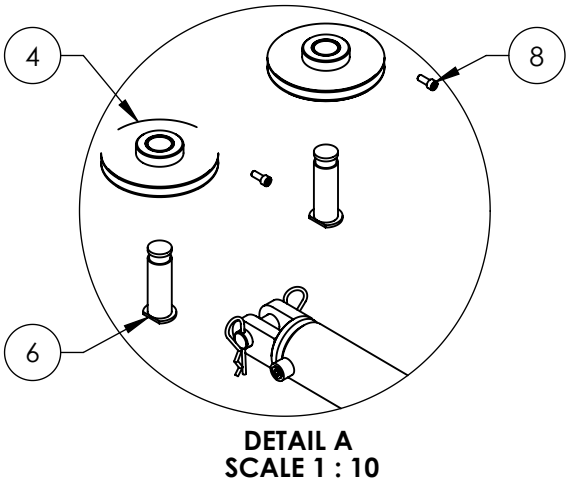
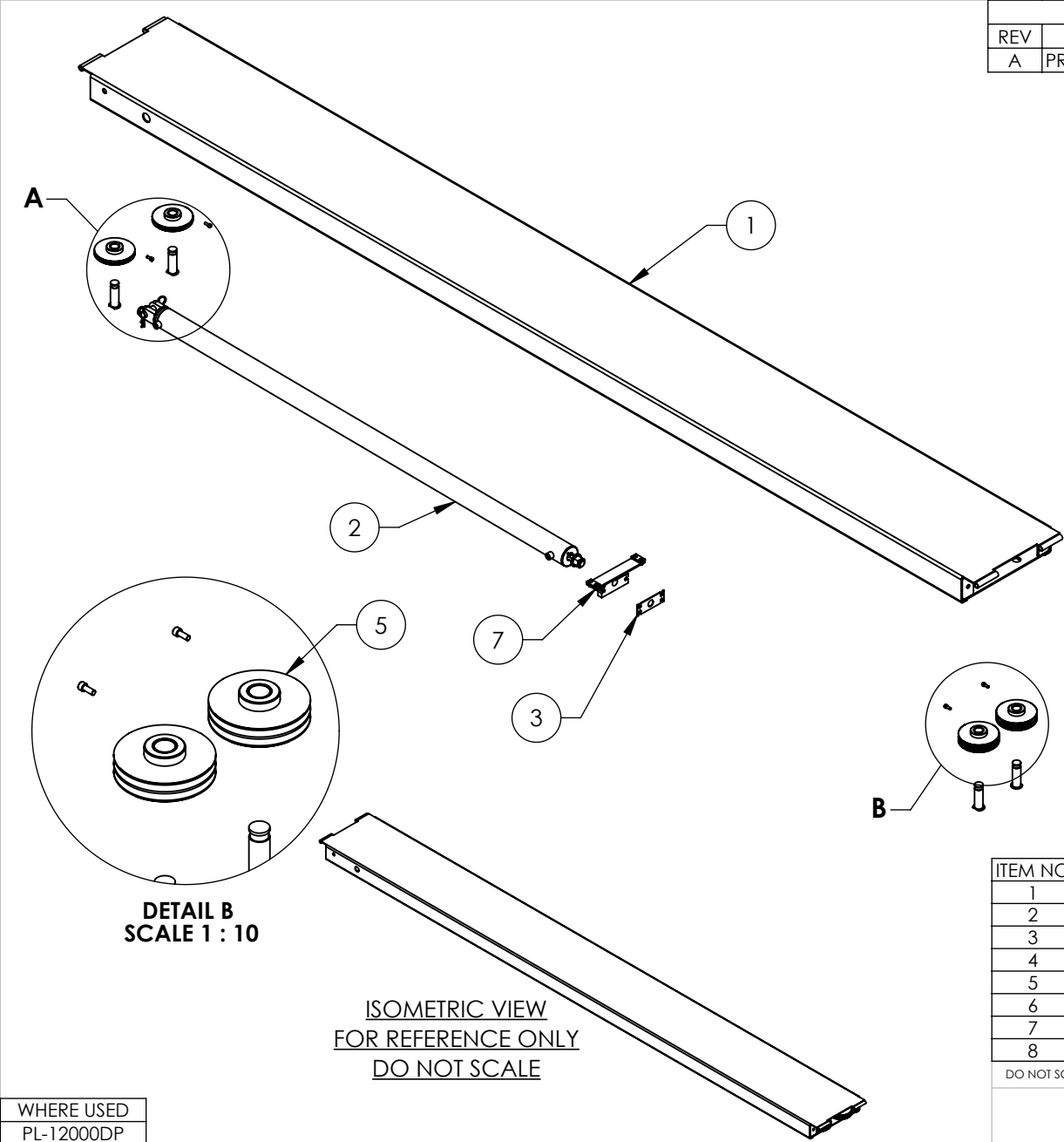
TITLE: PL-12000DP
SUPERSTRUCTURE

SIZE	DWG. NO.	REV
A	5245242	E

SCALE: 1:50

SHEET 2 OF 2

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215192	07/13/2022	TM	01428



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600192	HD-9/7500BLX POWER SIDE WELDMENT	1	K
2	5502038	CYLINDER ASSEMBLY Ø2.75 x 82"	1	D
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	-

WHERE USED
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5245242

DO NOT SCALE DRAWING

DRAWN
TM
07/13/2022

CHECKED
OR
07/28/2022

THIRD ANGLE PROJECTION

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NAME
DATE

TM
07/13/2022

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

BendPak

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:

PL-12000DP POWER SIDE
RAMP ASSEMBLY

SIZE
DWG. NO.

A
5216188

REV

A

SCALE: 1:25

SHEET 1 OF 2



WHERE USED
PL-12000DP
PL-12000DPS

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
5245242
5245255

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	ADDED 5601770, 5716079, 5565067, (2) 5540275, 5530009, 5545347, 5545201, AND 5535354, REMOVED 5716005, (5) 5545005, (4) 5535357, AND (1) 5755157, REPLACED (3) 5530005 WITH 5530439, (1) 5600160 WITH 5601773, (1) 5746008 WITH 5746648, AND 5530159 WITH 5400957, UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS	01/31/2022	CA	01381
D	ADDED 5530463, REPLACED 5716078 WITH 5716077, REMOVED (1) 5535354, (1) 5545201, (1) 5545347, AND (1) 5530009, UPDATED BOM REVISIONS	07/15/2022	TM	01428
E	UPDATED BOM REVISIONS	09/16/2022	CA	01444

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601734	PL-12000DP REAR CROSSTUBE WELDMENT, SMALL WINDOW	1	D
2	5601770	PL-12000DP REAR CROSSTUBE WELDMENT END, TALL	1	C
3	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	1	D
4	5746648	PL-12000DP REAR CROSSTUBE END SAFETY PIN	1	A
5	5540275	E RING Ø25mm OD DIN 6799 0250	10	-
6	5600160	HD-7/7500/9 CROSSTUBE SHEAVE SHAFT WELDMENT	1	G
7	5601773	PL-12000DP REAR CROSSTUBE END SHEAVE SHAFT WELDMENT	1	A
8	5540010	E RING Ø32mm OD DIN 6799	2	-
9	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
10	5530005	HHB M6 x 1 x 70	3	-
11	5530439	HHB M6 x 1.0 x 110 PT, CL 8,8	3	A
12	5545005	WASHER, M6 x 12mm FLAT	8	-
13	5535357	NUT M6 x 1.0, NL CL8	8	-
14	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	1	A
15	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
16	5575420	HD-7/7500/9 SAFETY ROLLER	2	C
17	5505030	PUSH-ON CLIP Ø10mm SS	2	-
18	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
19	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	B
20	5535230	NUT 1/4-28 JN	2	-
21	5505625	FEMALE ROD END M6 x 33	2	-
22	5550087	FTG ELB -04 COMP x -02 NPT	2	-
23	5530756	HHB M6 x 1.0 x 25mm	2	-
24	5755180	AIR CYLINDER SPACER 30mm	2	A
25	5755181	AIR CYLINDER SPACER 45mm	2	A
26	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
27	5716077	PL-12000DP POLYETHYLENE SLIDE BLOCK	2	C
28	5400957	SHCS M6 x 1.0 x 20 FT, CL 12,9	4	-
29	5716079	PL-12000DP REAR CROSSTUBE END POLYETHYLENE BOTTOM COVER	1	B
30	5565067	PL-12000DP REAR CROSSTUBE END SHEAVE SPACER	2	A
31	5530009	HHB M12 x 1.75 x 90 CL8,8	1	-
32	5545347	WASHER M12 x 24mm FLAT, CL 8,8	1	-
33	5545201	WASHER, M12 SPRING LOCK	1	-
34	5535354	NUT, M12 x 1.75	1	-
35	5530463	SSS M20 x 2.5 x 25 FLAT	1	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN RK	07/30/2021
CHECKED OR	09/21/2022

THIRD ANGLE PROJECTION

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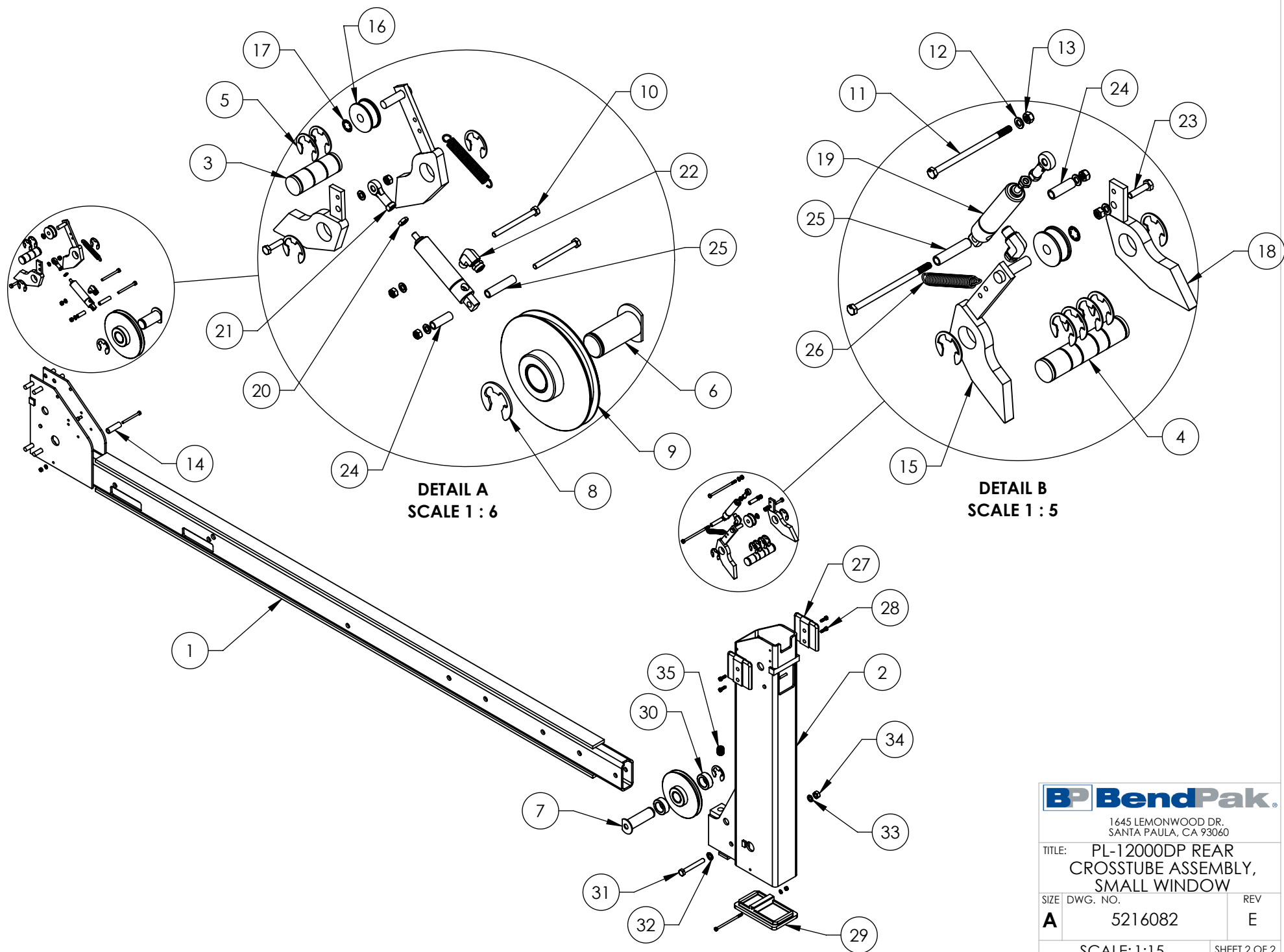


TITLE: PL-12000DP REAR CROSSTUBE ASSEMBLY, SMALL WINDOW

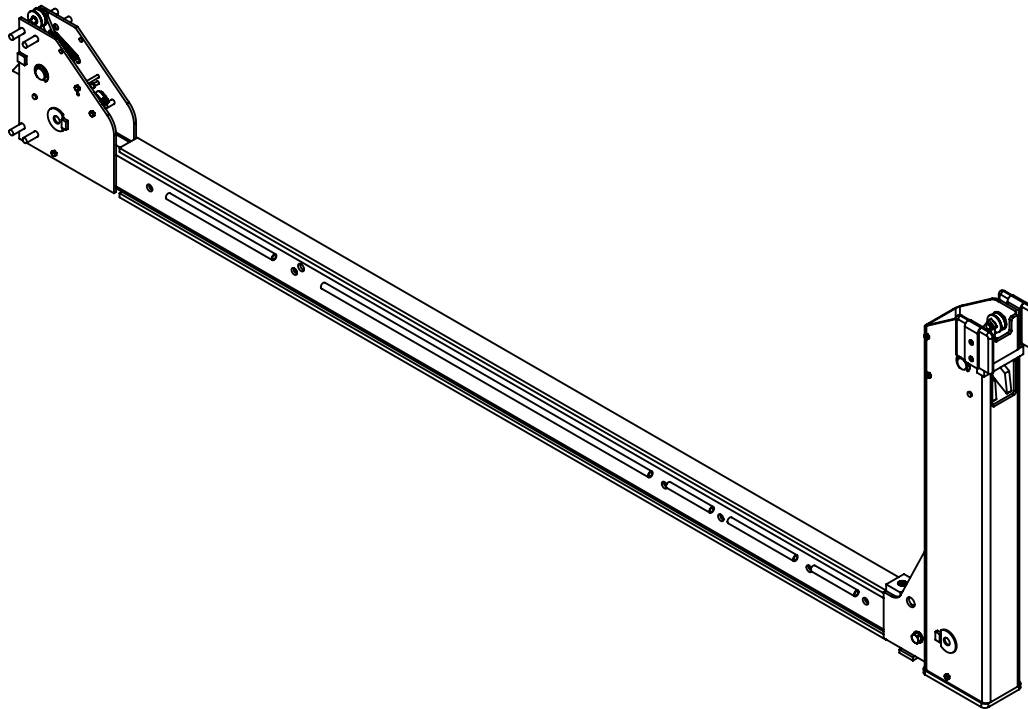
SIZE DWG. NO. REV
A 5216082 E

SCALE: 1:15

SHEET 1 OF 2



BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: PL-12000DP REAR CROSSTUBE ASSEMBLY, SMALL WINDOW		
SIZE	DWG. NO.	REV
A	5216082	E
SCALE: 1:15		SHEET 2 OF 2



WHERE USED
PL-12000DP
PL-12000DPS

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
5245242
5245255

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	ADDED 5601770, 5716079, 5565067, (2) 5540275, 5530009, 5545347, 5545201, AND 5535354, REMOVED 5716005, (5) 5545005, (4) 5535357, AND (1) 5755157, REPLACED (3) 5530005 WITH 5530439, (1) 5600160 WITH 5601773, (1) 5746008 WITH 5746648, AND 5530159 WITH 5400957, UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS	02/01/2022	CA	01381
D	ADDED 5530463, REPLACED 5716078 WITH 5716077, REMOVED (1) 5535354, (1) 5545201, (1) 5545347, AND (1) 5530009, UPDATED BOM REVISIONS	07/15/2022	TM	01428
E	UPDATED BOM REVISIONS	09/16/2022	CA	01444

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601735	PL-12000DP REAR CROSSTUBE WELDMENT, LARGE WINDOW	1	D
2	5601770	PL-12000DP REAR CROSSTUBE WELDMENT END, TALL	1	C
3	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	1	D
4	5746648	PL-12000DP REAR CROSSTUBE END SAFETY PIN	1	A
5	5540275	E RING Ø25mm OD DIN 6799 0250	10	-
6	5600160	HD-7/7500/9 CROSSTUBE SHEAVE SHAFT WELDMENT	1	G
7	5601773	PL-12000DP REAR CROSSTUBE END SHEAVE SHAFT WELDMENT	1	A
8	5540010	E RING Ø32mm OD DIN 6799	2	-
9	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
10	5530005	HHB M6 x 1 x 70	3	-
11	5530439	HHB M6 x 1.0 x 110 PT, CL 8.8	3	A
12	5545005	WASHER, M6 x 12mm FLAT	8	-
13	5535357	NUT M6 x 1.0, NL CL8	8	-
14	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	1	A
15	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
16	5575420	HD-7/7500/9 SAFETY ROLLER	2	C
17	5505030	PUSH-ON CLIP Ø10mm SS	2	-
18	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
19	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	-
20	5535230	NUT 1/4-28 JN	2	-
21	5505625	FEMALE ROD END M6 x 33	2	-
22	5550087	FTG ELB -04 COMP x -02 NPT	2	-
23	5530756	HHB M6 x 1.0 x 25mm	2	-
24	5755180	AIR CYLINDER SPACER 30mm	2	A
25	5755181	AIR CYLINDER SPACER 45mm	2	A
26	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
27	5716077	PL-12000DP POLYETHYLENE SLIDE BLOCK	2	C
28	5400957	SHCS M6 x 1.0 x 20 FT, CL 12.9	4	-
29	5716079	PL-12000DP REAR CROSSTUBE END POLYETHYLENE BOTTOM COVER	1	B
30	5565067	PL-12000DP REAR CROSSTUBE END SHEAVE SPACER	2	A
31	5535354	NUT, M12 x 1.75	1	-
32	5545201	WASHER, M12 SPRING LOCK	1	-
33	5545347	WASHER M12 x 24mm FLAT, CL 8.8	1	-
34	5530009	HHB M12 x 1.75 x 90 CL8.8	1	-
35	5530463	SSS M20 x 2.5 x 25 FLAT	1	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	07/07/2022
CHECKED OR	09/21/2022

THIRD ANGLE PROJECTION

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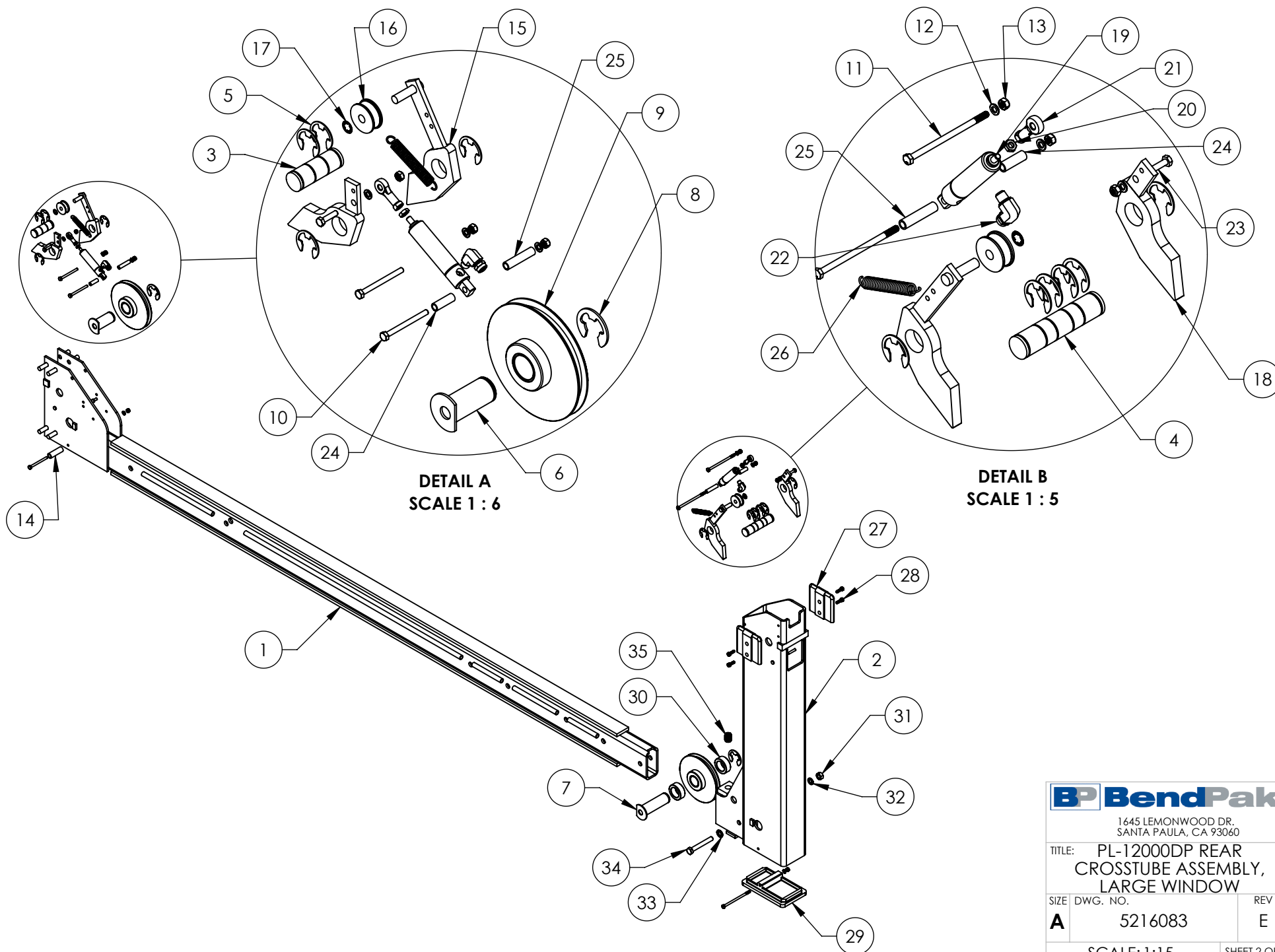


TITLE: PL-12000DP REAR CROSSTUBE ASSEMBLY, LARGE WINDOW

SIZE	DWG. NO.	REV
A	5216083	E

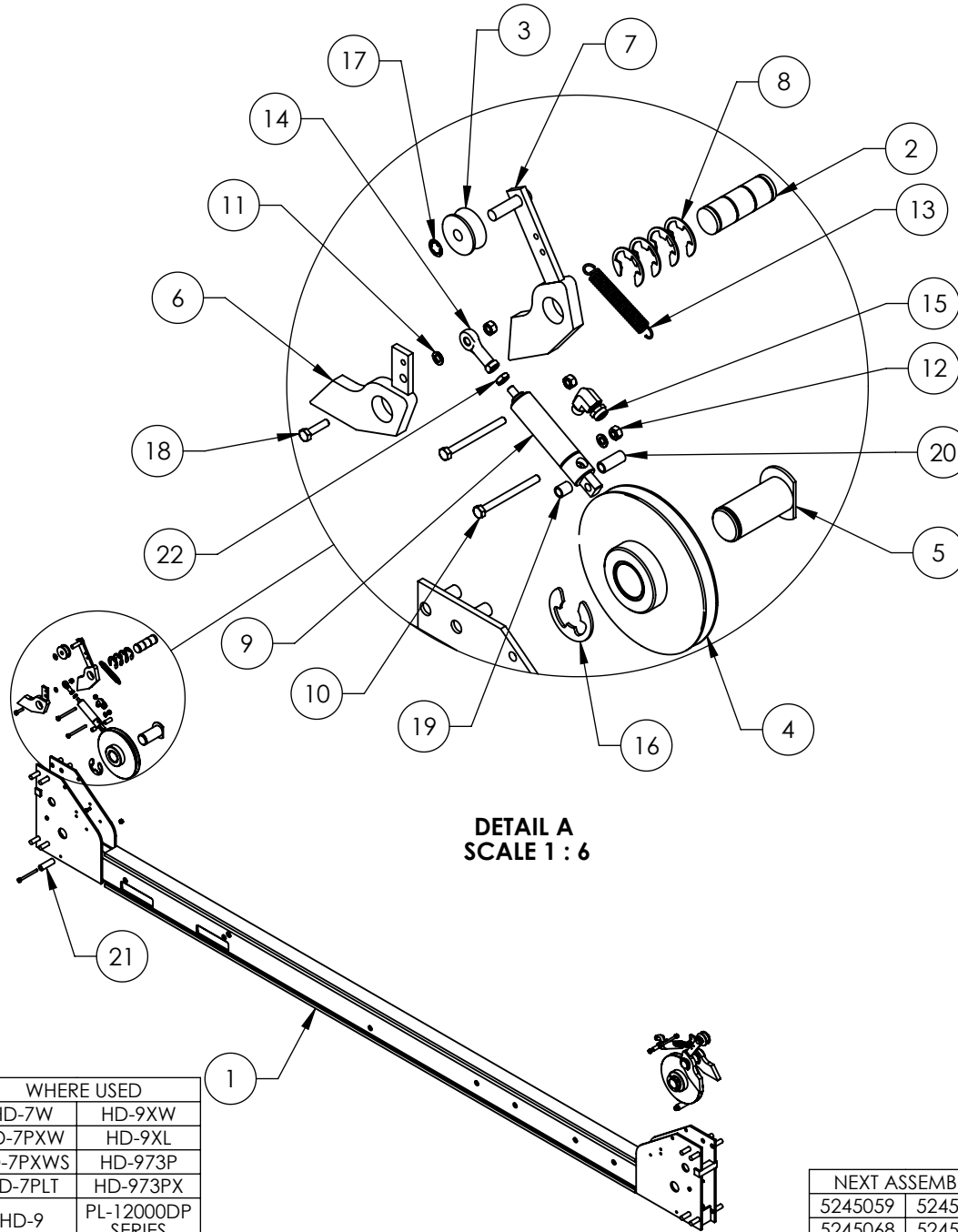
SCALE: 1:15

SHEET 1 OF 2



BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: PL-12000DP REAR CROSSTUBE ASSEMBLY, LARGE WINDOW		
SIZE	DWG. NO.	REV
A	5216083	E
SCALE: 1:15		SHEET 2 OF 2

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



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

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY	
5245059	5245381
5245068	5245382
5245242	5245383
5245244	5245384
5245255	5245385
5245256	

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	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	04/29/2022
CHECKED OR	06/10/2022

THIRD ANGLE PROJECTION



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

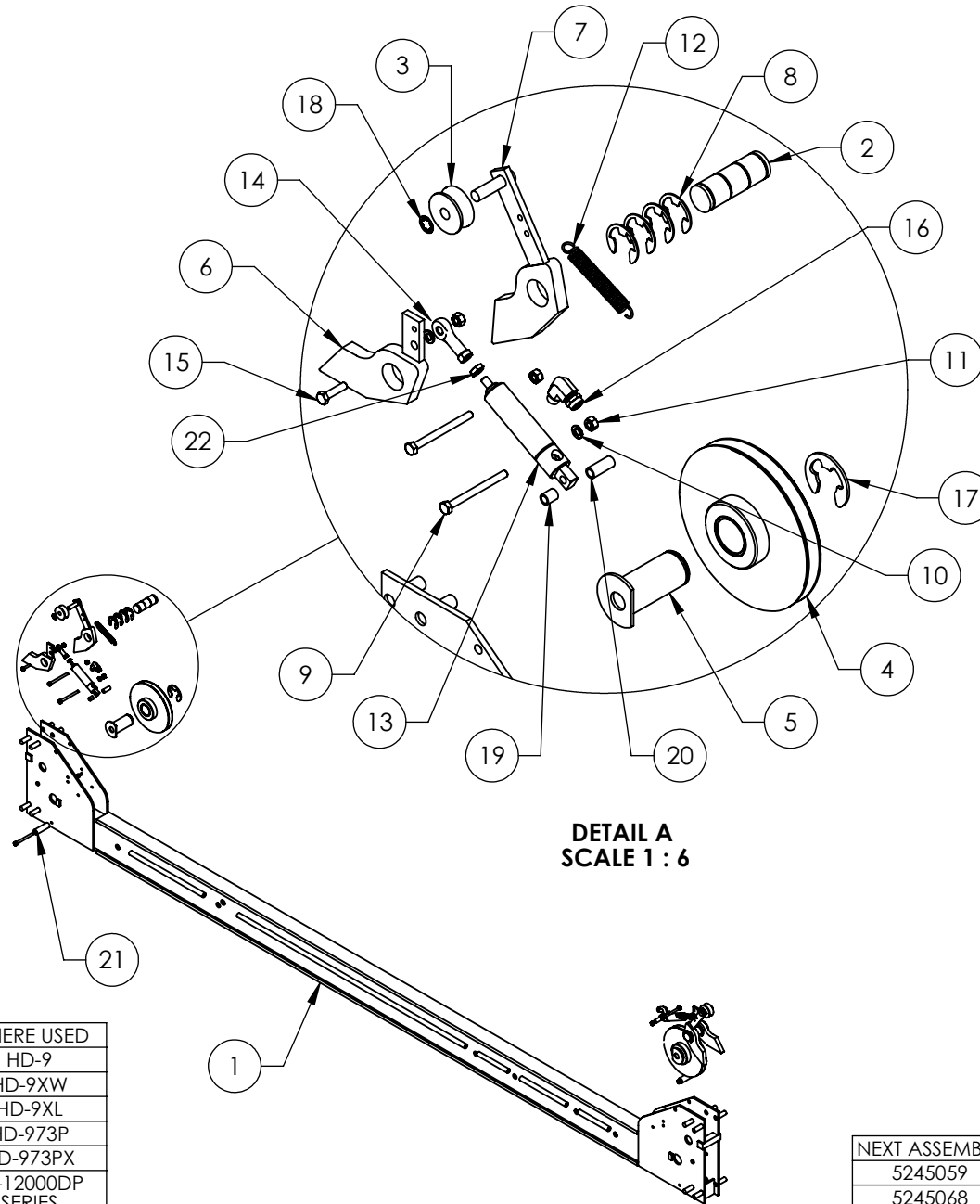
TITLE: HD-7/9/973P, PL-12000
CROSSTUBE ASSEMBLY,
SMALL WINDOW

SIZE DWG. NO. REV
A 5216155 **A**

SCALE: 1:20

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
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 SERIES

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	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	04/29/2022
CHECKED OR	6/10/2022

THIRD ANGLE PROJECTION



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TITLE: HD-9/973P, PL-12000
CROSSTUBE ASSEMBLY,
LARGE WINDOW

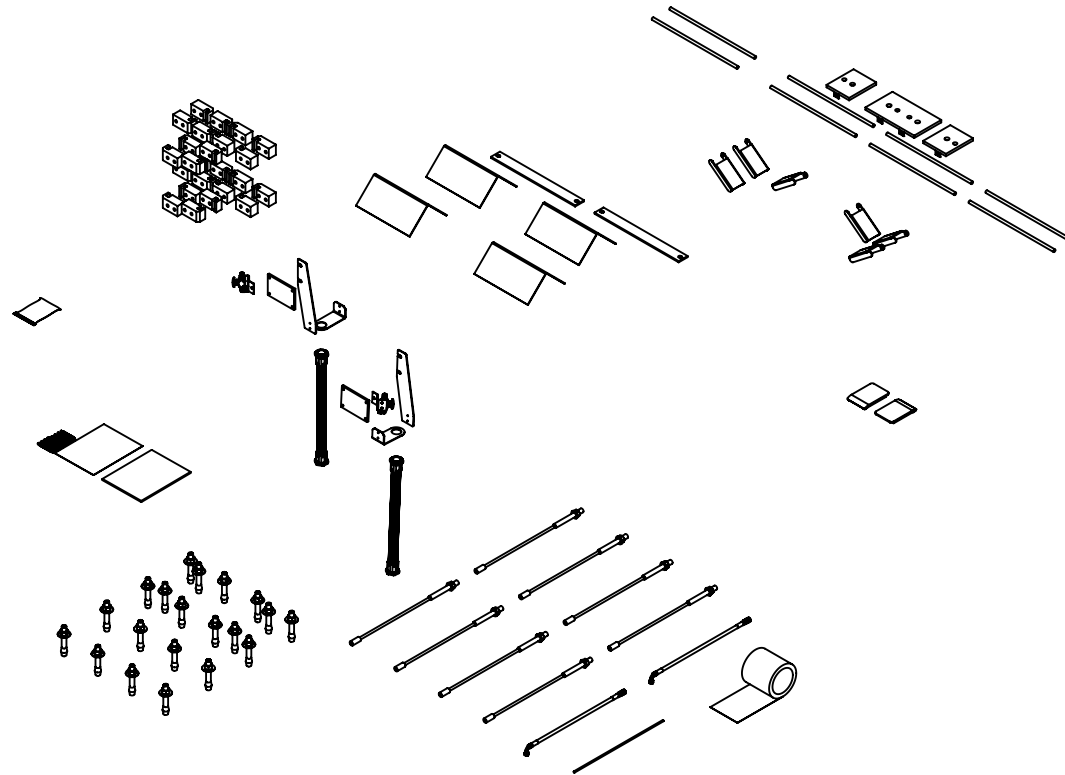
SIZE	DWG. NO.	REV
A	5216156	A

SCALE: 1:20

SHEET 1 OF 1

NEXT ASSEMBLY
5245059
5245068
5245242
5245255
5245381
5245382
5245383

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	ADDED 5930195, REPLACED 5570050 WITH 5216139, 5570152 AND 5570253 WITH 5570022, UPDATED BOM REVISION	07/25/2022	TM	01428
D	REPLACED 5595716 WITH 5595627, UPDATED BOM REVISIONS	09/16/2022	CA	01444
E	UPDATED BOM REVISIONS	11/18/2022	CA	01457



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174102	PL-12000DP PARTS BAG	1	C
2	5600405	HD-7/9/7500, PL-12000 TOP PLATE WELDMENT	2	C
3	5601732	PL-12000DP DOUBLE TOP PLATE WELDMENT, CENTER/FRONT	1	B
4	5745014	HD-7/7500/9, PL-12000 DRIVE UP RAMP PIN	8	B
5	5716005	CROSSTUBE POLYETHYLENE SLIDE BLOCK	24	M
6	5215096	PUSH BUTTON AIR ASSEMBLY	2	G
7	5715003	POWER UNIT VIBRATION DAMPENER	2	B
8	5595712	CABLE ASSEMBLY Ø10 x 3900mm ST	1	B
9	5595714	CABLE ASSEMBLY Ø10 x 5515mm ST	1	C
10	5595627	CABLE ASSEMBLY Ø10 x 8031mm ST	1	C
11	5595718	CABLE ASSEMBLY Ø10 x 9637mm ST	1	B
12	5595713	CABLE ASSEMBLY Ø10 x 3283mm ST	1	B
13	5595715	CABLE ASSEMBLY Ø10 x 4892mm ST	1	D
14	5595717	CABLE ASSEMBLY Ø10 x 8665mm ST	1	C
15	5595719	CABLE ASSEMBLY Ø10 x 10257mm ST	1	C
16	5570022	HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm	2	G
17	5216139	FLEX TUBE KIT, UP TO 2000mm	2	A
18	5570795	1/4" POLY-FLO TUBING	33500mm*	-
19	5700029	HD-SERIES FLEX TUBE BRACKET PLATE	2	F
20	5700033	HD/HDS FLEX TUBE ANGLE	2	E
21	5700072	WHEEL CHOCK	4	B
22	5530456	AB 3/4" x 4 - 3/4"	20	-
23	5900033	HD-9SW/SWX INSTALLATION MANUAL	1	-
24	5716630	HD-7/7500/9 CROSSTUBE COVER, PLASTIC	6	A
25	5716080	PL-12000DP REAR CROSSTUBE END TOP COVER, PLASTIC	2	A
26	5735663	HD-9 RAMP STRAP, BOLT ON	2	B
27	5210241	4 POST LIGHT DUTY CE PARTS BAG	1	A
28	5930195	ANTI-SLIP TAPE, 6" x 24ft	1	-

WHERE USED
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
3. CABLES AND HOSES SHOWN IN REPRESENTATIONAL FORM ONLY
4. (*)LENGTH FOR REFERENCE ONLY

NEXT ASSEMBLY
5260663

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME
DATE
DRAWN TM 10/08/2021
CHECKED

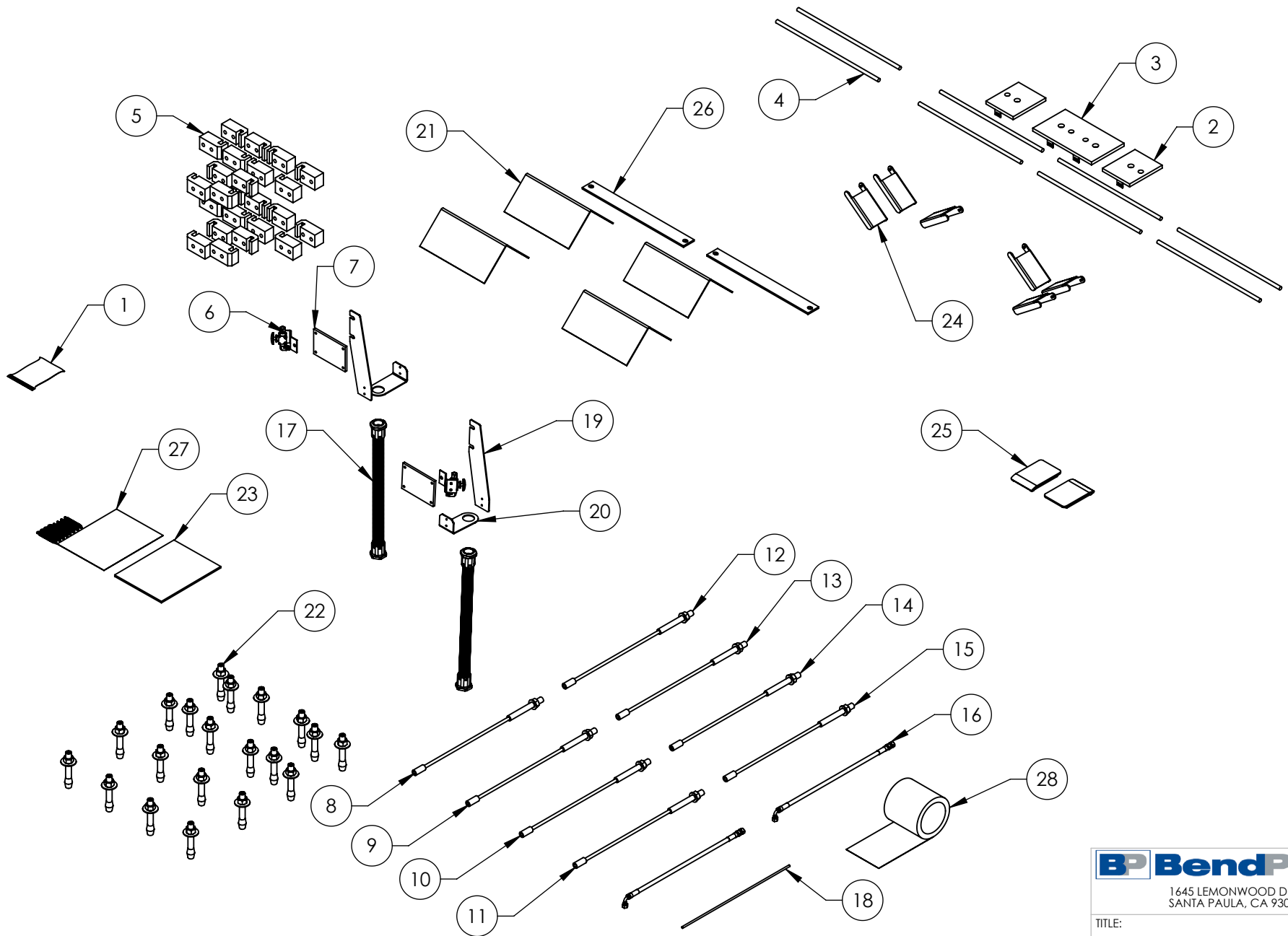
THIRD ANGLE PROJECTION

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BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
PL-12000DP PARTS BOX

SIZE DWG. NO. REV
A 5250339 E
SCALE: 1:30 SHEET 1 OF 2



BP BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
PL-12000DP PARTS BOX

SIZE	DWG. NO.	REV
A	5250339	E

SCALE: 1:18

SHEET 2 OF 2

WHERE USED
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

NEXT ASSEMBLY
5250339

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5174053	10/14/2021	TM	01351
B	REMOVED (2) 5535357, 553031, AND 5545005, REPLACED (4) 5530193 WITH 5530438, (8) 5545347 WITH 5545343, AND (4) 5535012 WITH 5535017, UPDATED TITLE TO REFLECT MARKETING	02/01/2022	CA	01381
C	REMOVED 5550147 AND 5550093	07/25/2022	TM	01428

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5535001	NUT M8 x 1.25 NL	8	-
2	5545340	WASHER M8 x24 FLAT	8	-
3	5530010	HHB M8 x 1.25 x 25mm ZPL	8	-
4	5550395	FTG TEE -04 COMP x -04 COMP x -04 COMP	10	-
5	5550089	FTG ELB -04 COMP x -06 NPT	4	-
6	5550106	FTG ELB -04JIC x 3/8" NPT	2	-
7	5550008	FTG ELB -04 JIC -06L ORB	2	-
8	5545009	WASHER, M4 x 9mm FLAT	4	-
9	5530008	SHCS M4 x 0.7 x 12 BOC	4	-
10	5535010	NUT M4 X 0.7 NL	4	-
11	5545535	C WASHER SHIM FOR LIFTS	20	-
12	5580012	LIQUID PTFE THREAD SEALANT 50ml	1	-
13	5545341	WASHER M10 x Ø20 FLAT	12	-
14	5530021	HHB M10 x 1.5 x 30mm ZPL	1	-
15	5535013	NUT M10 x 1.5 NL	6	-
16	5746381	HD-7/7500/ 9 SPACER, SAFETY LADDER, 17.5mm LG	6	B
17	5530167	HHB M10 x 1.5 x 45mm	4	-
18	5530767	HHB M10 x 1.5 x 70	1	-
19	5530756	HHB M6 x 1.0 x 25mm	16	-
20	5535357	NUT M6 x 1.0 NL	16	-
21	5545347	WASHER, M12 FLAT WASHER	20	-
22	5535012	NUT M12 x 1.75 NL	4	-
23	5530009	HHB M12 x 1.75 x 90 CL8.8	16	-
24	5545201	WASHER, M12 SPRING LOCK	16	-
25	5535354	NUT, M12 x1.75	16	-
26	5505031	ROTOR CLIP Ø12mm SS	16	-
27	5530375	HHB M12 x 1.75 x 25 CL12.9	4	-
28	5530438	HHB M20 x 2.5 x 150 PT, CL 8.8	6	-
29	5545343	WASHER, M20 FLAT	6	-
30	5535017	NUT M20 x 2.5 NL	6	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	10/08/2021
CHECKED OR	07/27/2022

THIRD ANGLE PROJECTION



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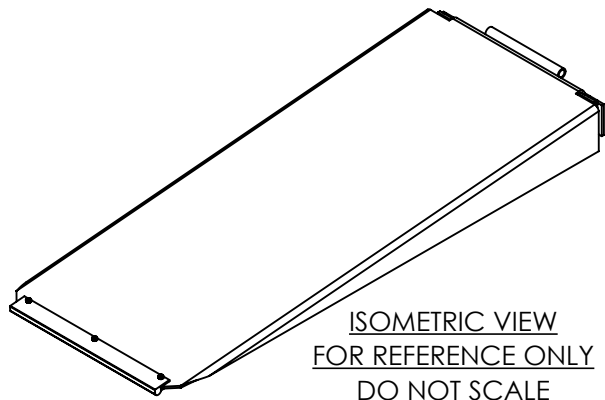


1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

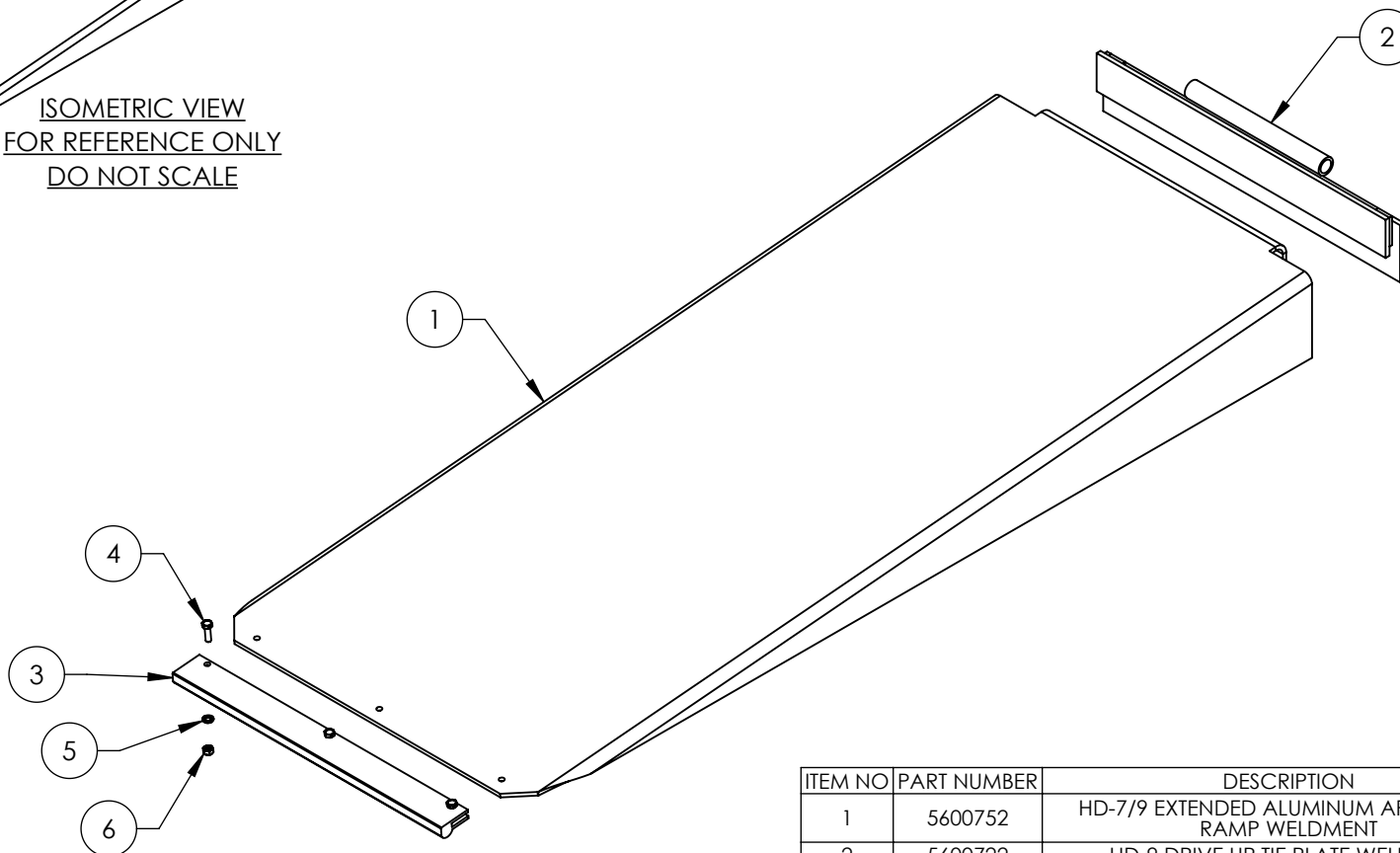
TITLE:
PL-12000DP PARTS BAG

SIZE	DWG. NO.	REV
A	5174102	C

SCALE: 1:60 SHEET 1 OF 1



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5174497	04/08/2013	TM	00595
B	UPDATED BOM REVISION	11/18/2014	TM	00674
C	ADDED 5716054, 5530093, 5545005, AND 5535357, UPDATED BOM REVISION AND NEXT ASSEMBLY	12/31/2019	CA	01120



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

NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600752	HD-7/9 EXTENDED ALUMINUM APPROACH RAMP WELDMENT	1	C
2	5600722	HD-9 DRIVE UP TIE PLATE WELDMENT	1	A
3	5716054	APPROACH RAMP EDGE GUARD	1	A
4	5530093	HHB M6 x 1.0 x 20mm	3	-
5	5545005	WASHER, M6 x 12mm FLAT	3	-
6	5535357	NUT M6 x 1.0, NL CL8	3	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NEXT ASSEMBLY
5174705
5245242
5245255
ACCESSORY

NAME	DATE
DRAWN TM	04/08/2013
CHECKED OR	04/20/2020

THIRD ANGLE PROJECTION



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1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

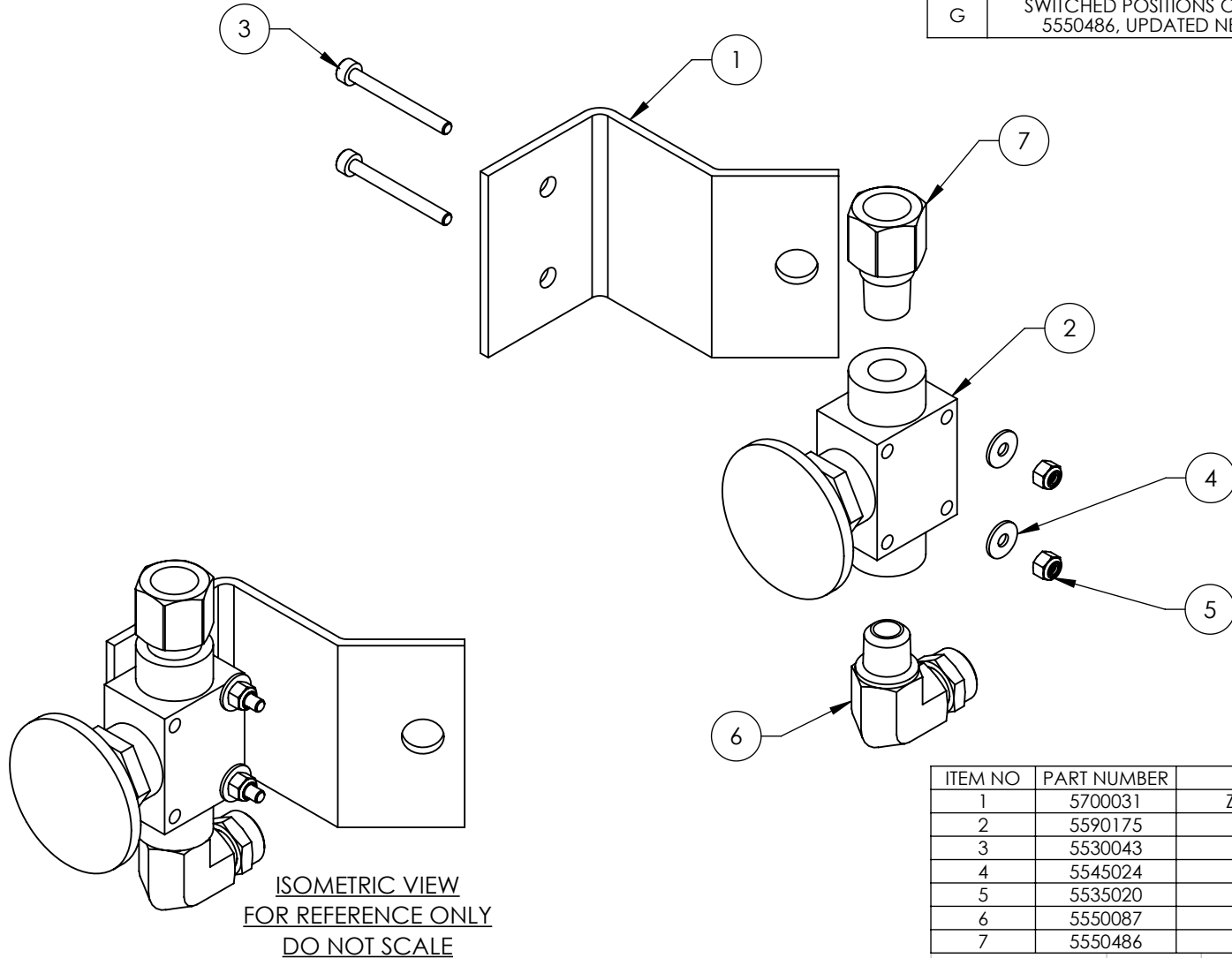
TITLE: HD-7/9 EXTENDED ALUMINUM APPROACH RAMP ASSEMBLY

SIZE DWG. NO. REV
A 5174700 C

SCALE: 1:8

SHEET 1 OF 1

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 CL8	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

DRAWN	AC	03/14/2008
CHECKED	CA	09/02/2015

DIMENSIONS ARE IN MM



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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

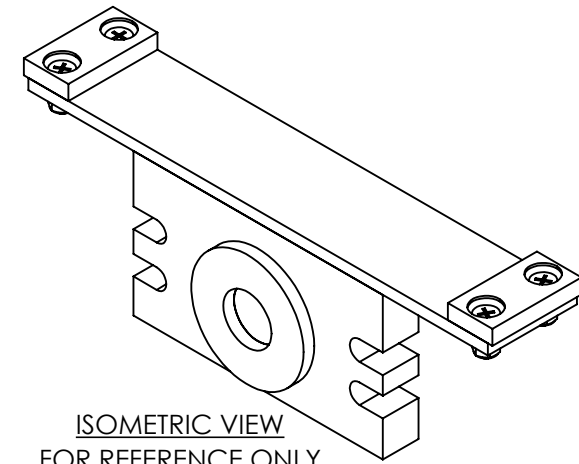
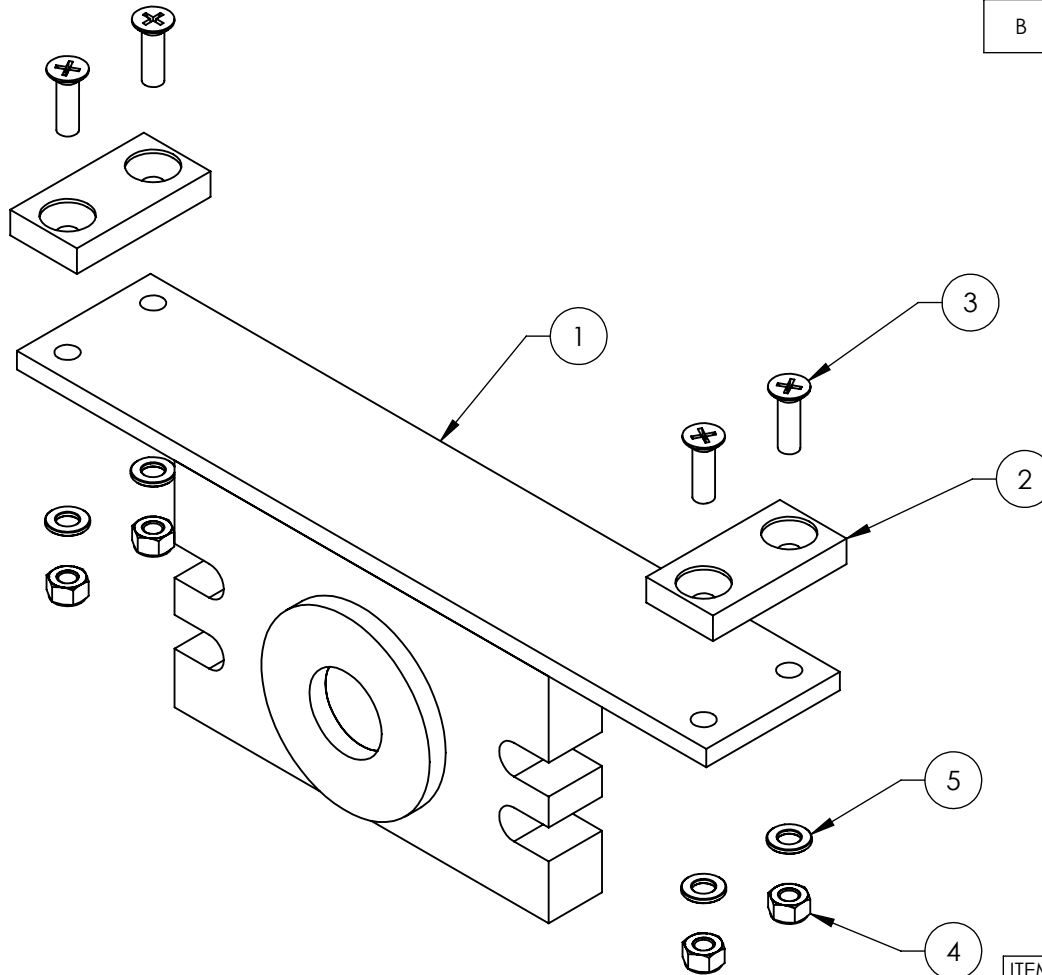
SHEET 1 OF 1

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#
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 SERIES

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

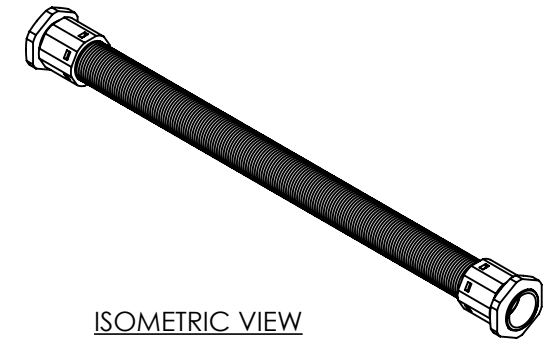
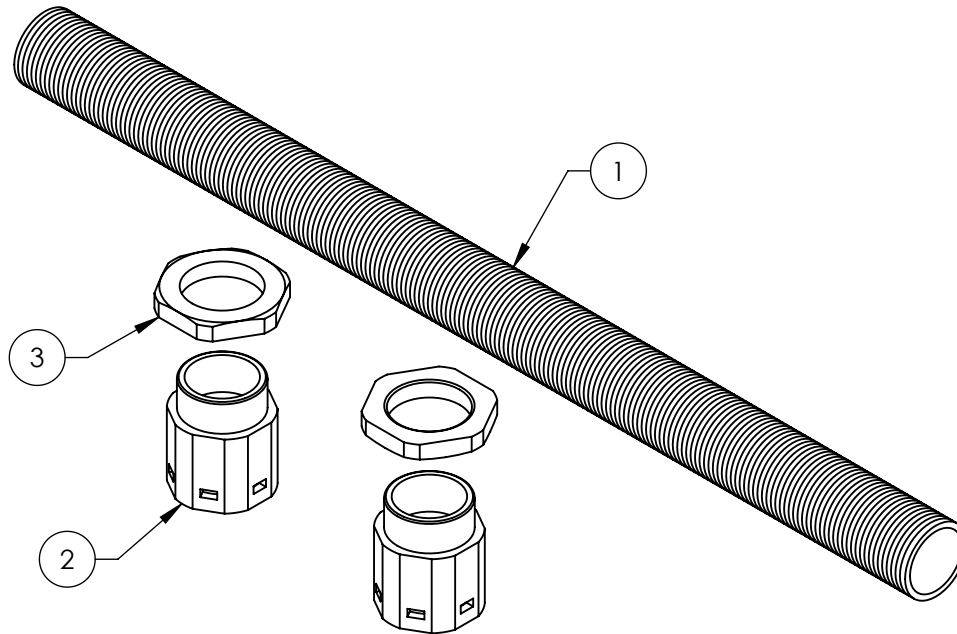
SIZE	DWG. NO.	REV
A	5215820	B

SCALE: 1:2

SHEET 1 OF 1

NEXT ASSEMBLY
5215190
5215192
5215512
5215525
5216058
5216185
5216188

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	5250349
5250167	5250194	5250364
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	05/10/2022

THIRD ANGLE PROJECTION

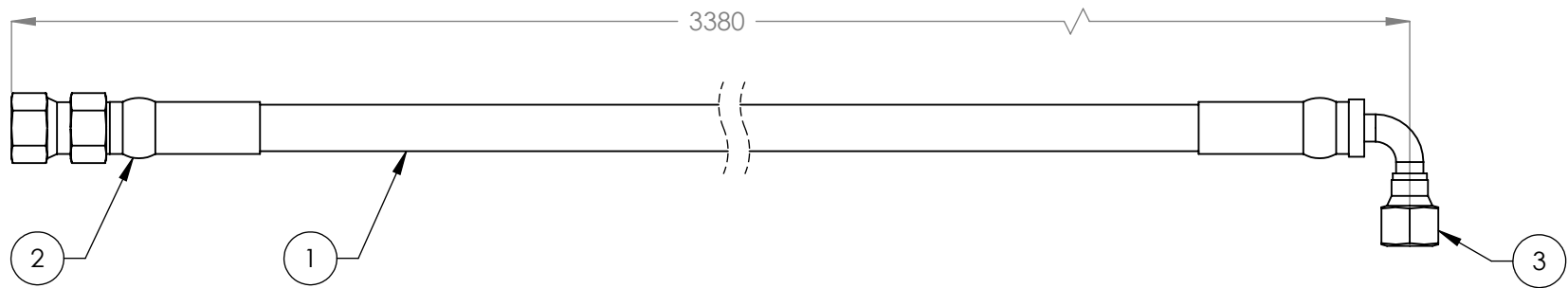


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1645 LEMONWOOD DR. SANTA PAULA, CA 93060

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			
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±1.0 0.00 = ±0.25 0.000 = ±0.13		DRAWN	AC			12/17/2007	
		CHECKED	CA			09/11/2018	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION			TITLE: HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm		
					SIZE	DWG. NO.	REV
					A	5570022	G
		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.			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:

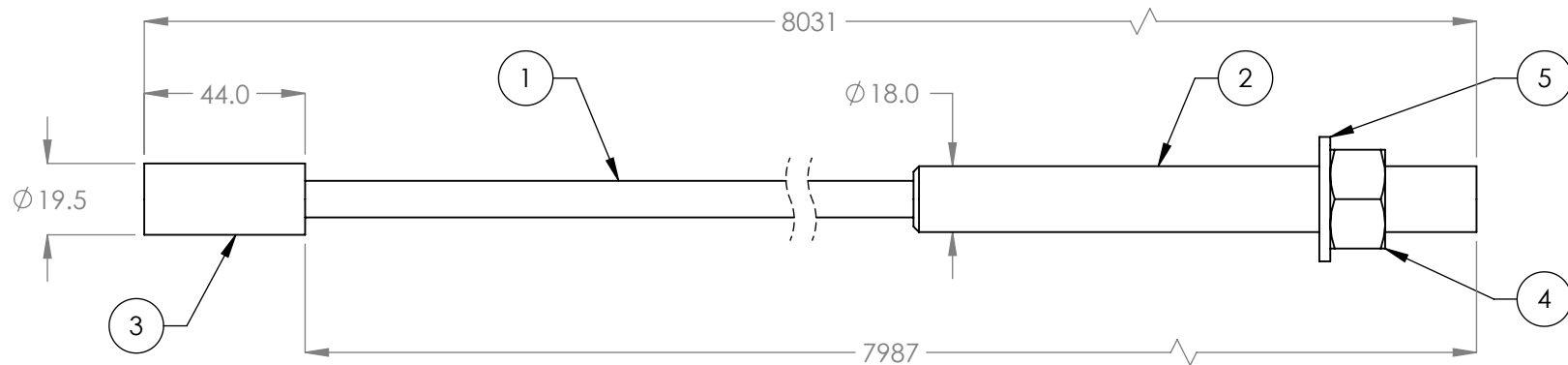
Xin Yurong
Shandong Ningjin High Energy Hose Co., Ltd.
Tel: +86 534-5421821
No. 7, Taishan Rd., Industrial Park, Ningjin County, Shandong, China



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 5595423	11/14/2019	CA	01120
B	WAS 8077 NOW 8031, WAS 8033 NOW 7987, WAS 7983 NOW 7937	04/29/2020	TM	01163
C	ADDED 5535358 AND 5545342	07/15/2020	TM	01174



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	7937mm*	-
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-9SWX
PL-12000DP

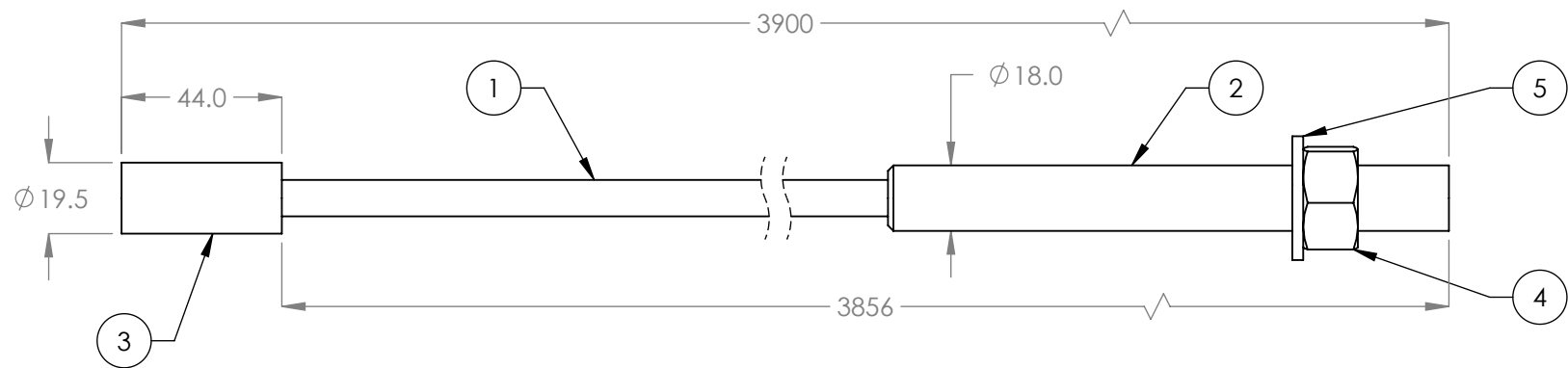
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250290
5250339

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		DRAWN		CA				11/14/2019	
		CHECKED		OR				08/28/2020	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION				TITLE:			
						CABLE ASSEMBLY Ø10 x 8031mm ST			
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		5595627		C			
		SCALE: 1:2				SHEET 1 OF 1			

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595637	10/14/2021	TM	01351
B	WAS 3848 NOW 3900	09/15/2022	CA	01444



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	3806mm*	-
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
PL-12000DP

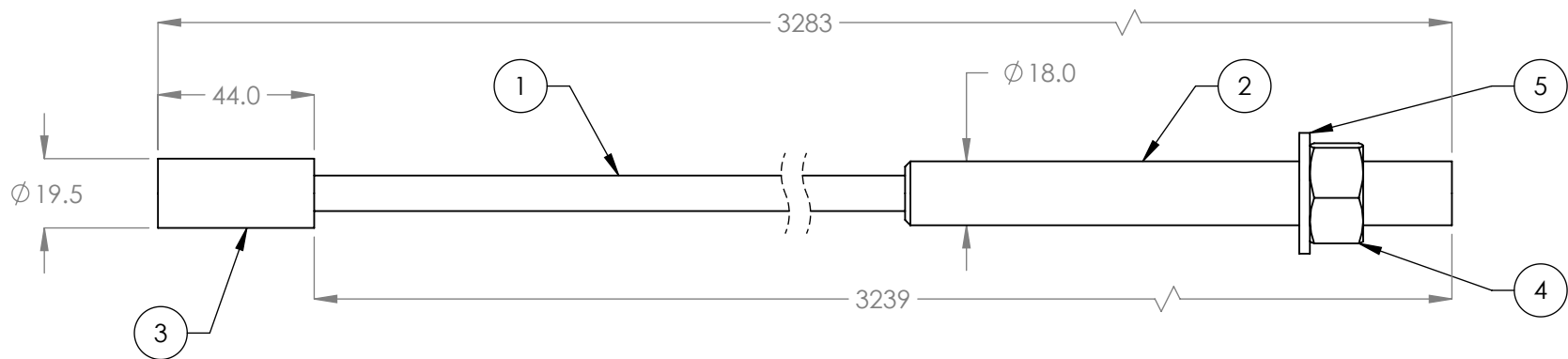
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250339

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	10/14/2021	
CHECKED		OR	09/21/2022	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE: CABLE ASSEMBLY Ø10 x 3900mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				SIZE DWG. NO. A 5595712
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.		SCALE: 1:2		REV B SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595637	10/14/2021	TM	01351
B	WAS 3239 NOW 3283	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	3189mm*	-
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
PL-12000DP

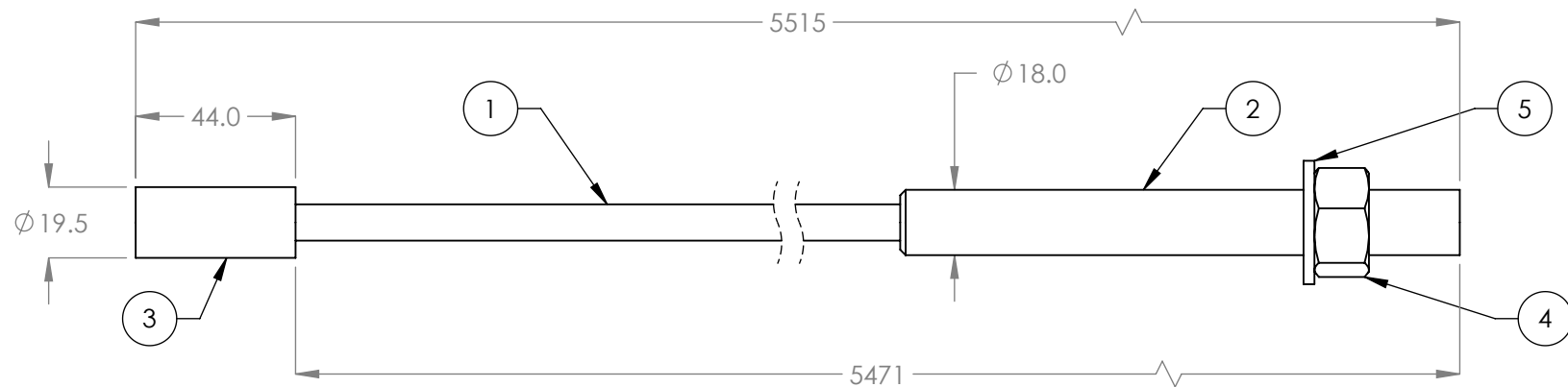
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250339

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		10/14/2021			
		CHECKED							
		THIRD ANGLE PROJECTION				TITLE:			
Y						CABLE ASSEMBLY Ø10 x 3283mm ST			
		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 5595713		B	
		SCALE: 1:2				SHEET 1 OF 1			

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595685	10/14/2021	TM	01351
B	WAS 5525 NOW 5540	09/15/2022	CA	01444
C	WAS 5540 NOW 5515	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	5421mm*	-
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
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

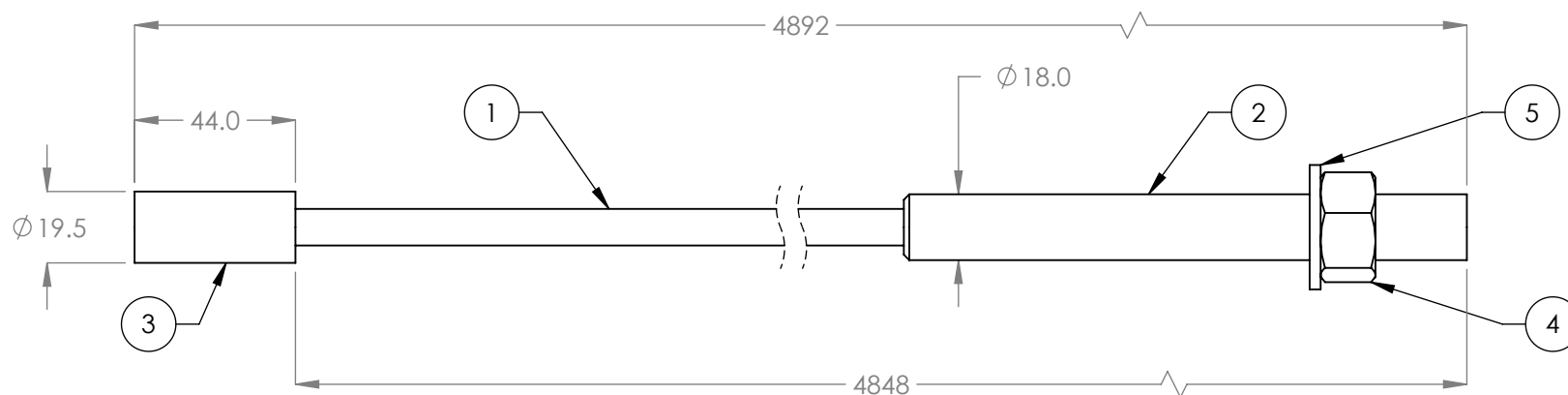
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250339

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	10/14/2021	
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		THIRD ANGLE PROJECTION		TITLE: CABLE ASSEMBLY Ø10 x 5515mm ST
				SIZE DWG. NO. REV A 5595714 C
				SCALE: 1:2 SHEET 1 OF 1

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.

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
B	WAS 7915 NOW 4915	07/13/2022	TM	01428
C	WAS 4915 NOW 4905	09/15/2022	CA	01444
D	WAS 4905 NOW 4892	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	4798mm*	-
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
PL-12000DP

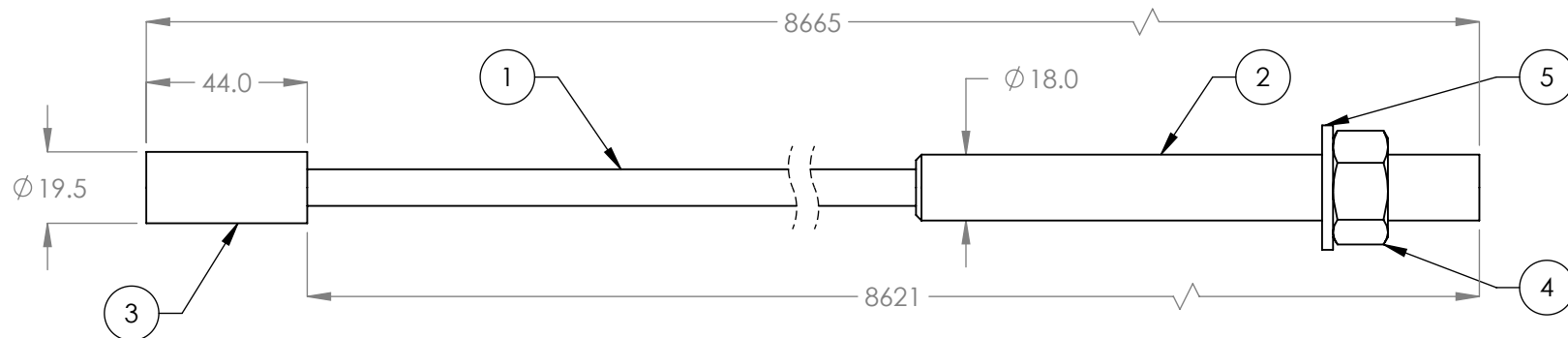
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250339

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		DRAWN	TM 10/14/2021	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		CHECKED		
THIRD ANGLE PROJECTION				TITLE: CABLE ASSEMBLY Ø10 x 4892mm ST
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 5595715 D		SCALE: 1:2
				SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595686	10/14/2021	TM	01351
B	WAS 8585 NOW 8650	09/15/2022	CA	01444
C	WAS 8650 NOW 8665	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	8571mm*	-
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
PL-12000DP

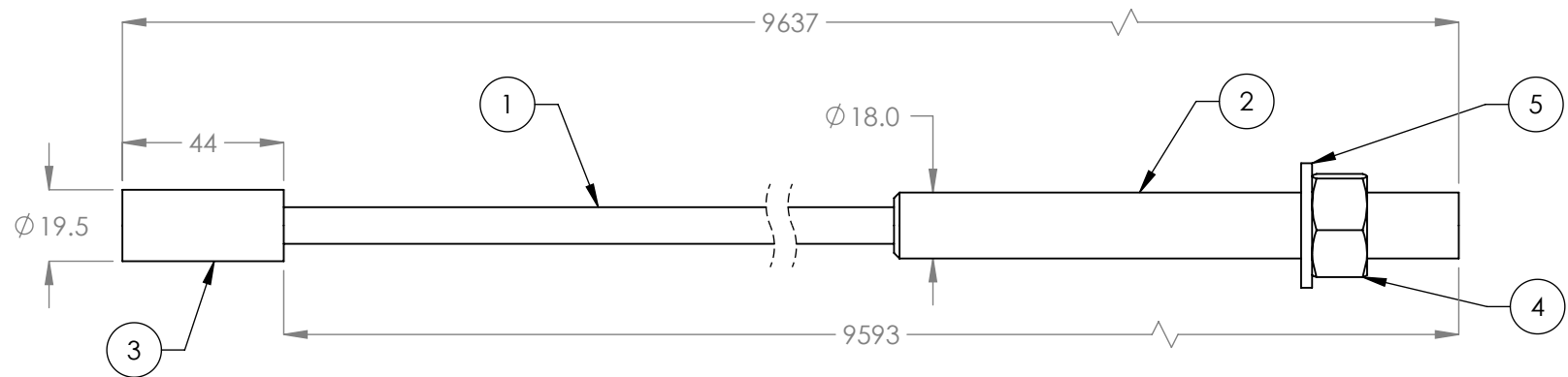
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250339

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	10/14/2021	
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		THIRD ANGLE PROJECTION		TITLE: CABLE ASSEMBLY Ø10 x 8665mm ST
				
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.				
Y	SIZE		DWG. NO.	REV
	A		5595717	C
	SCALE: 1:2		SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595687	10/14/2021	TM	01351
B	WAS 9665 NOW 9637	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	9543mm*	-
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
PL-12000DP

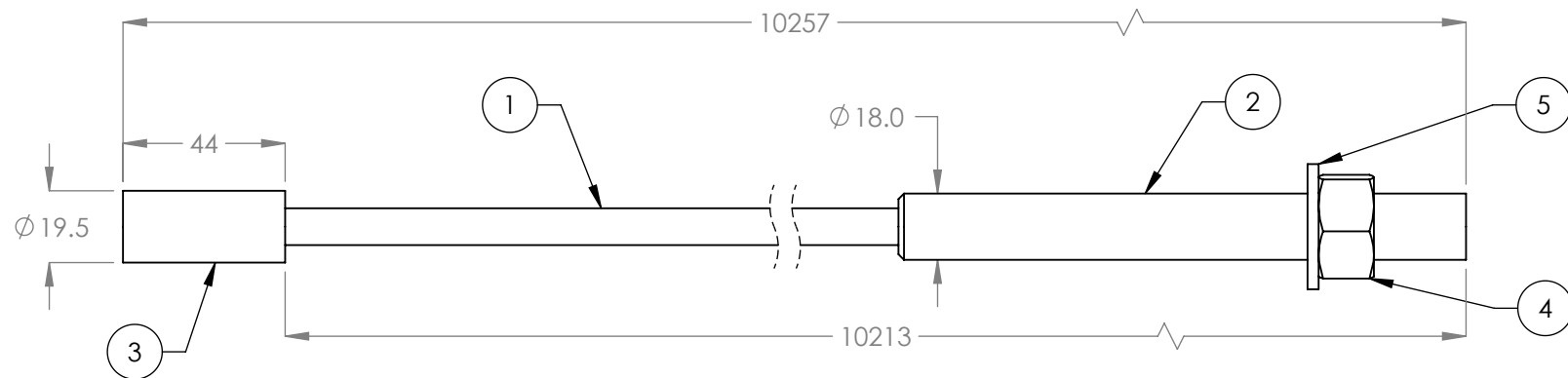
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250339

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	10/14/2021	
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		THIRD ANGLE PROJECTION		TITLE: CABLE ASSEMBLY Ø10 x 9637mm ST
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 5595718		REV B
		SCALE: 1:2		SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595687	10/14/2021	TM	01351
B	WAS 10274 NOW 10230	09/15/2022	CA	01444
C	WAS 10230 NOW 10257	11/18/2022	CA	01457



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	10163mm*	-
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	-

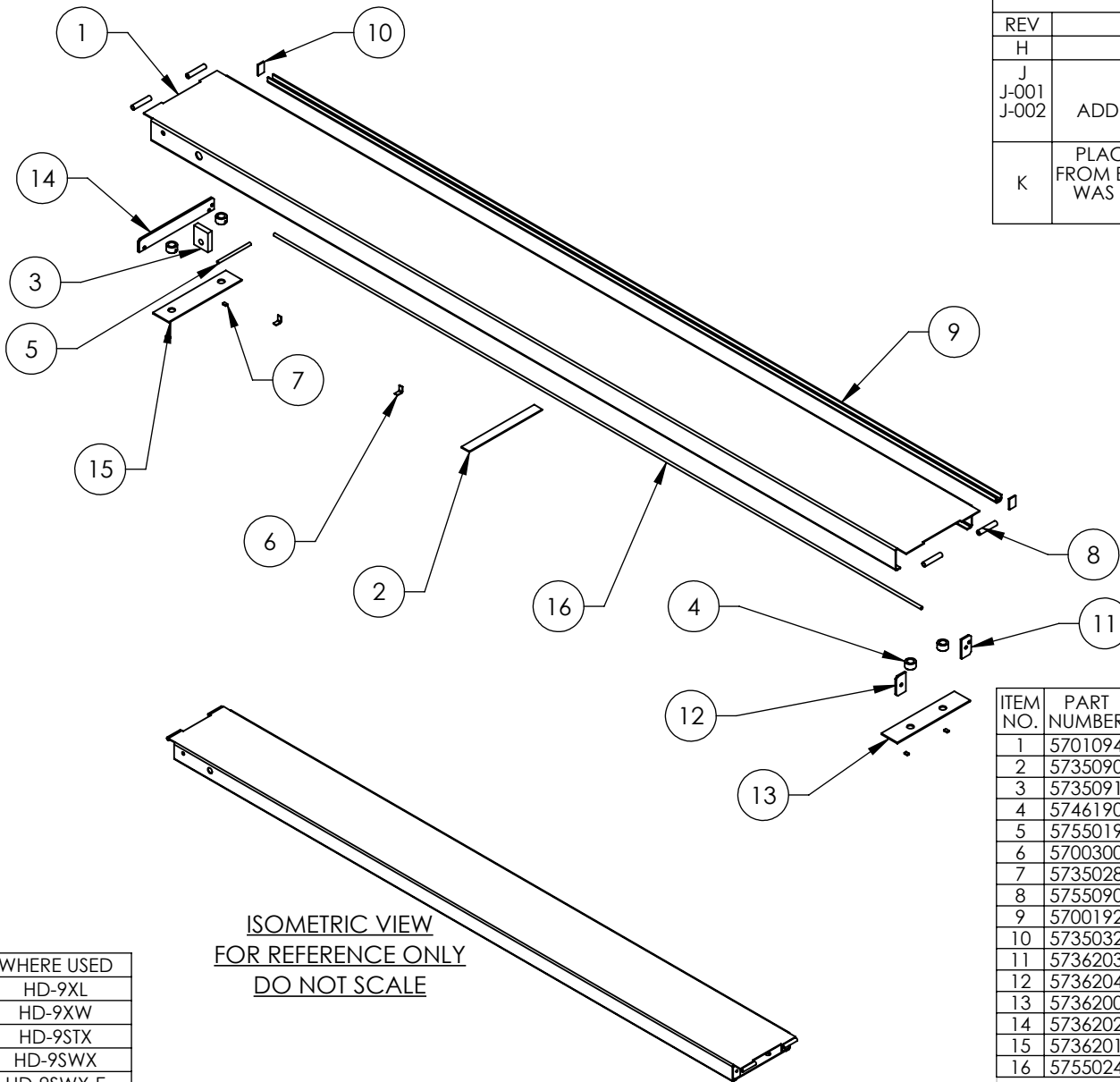
WHERE USED
PL-12000DP

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
5250339

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
	DRAWN	TM		
	CHECKED			
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5	THIRD ANGLE PROJECTION		TITLE:	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED			CABLE ASSEMBLY Ø10 x 10257mm ST	
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	5595719	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-9SWX-E
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
5216188

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 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



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.



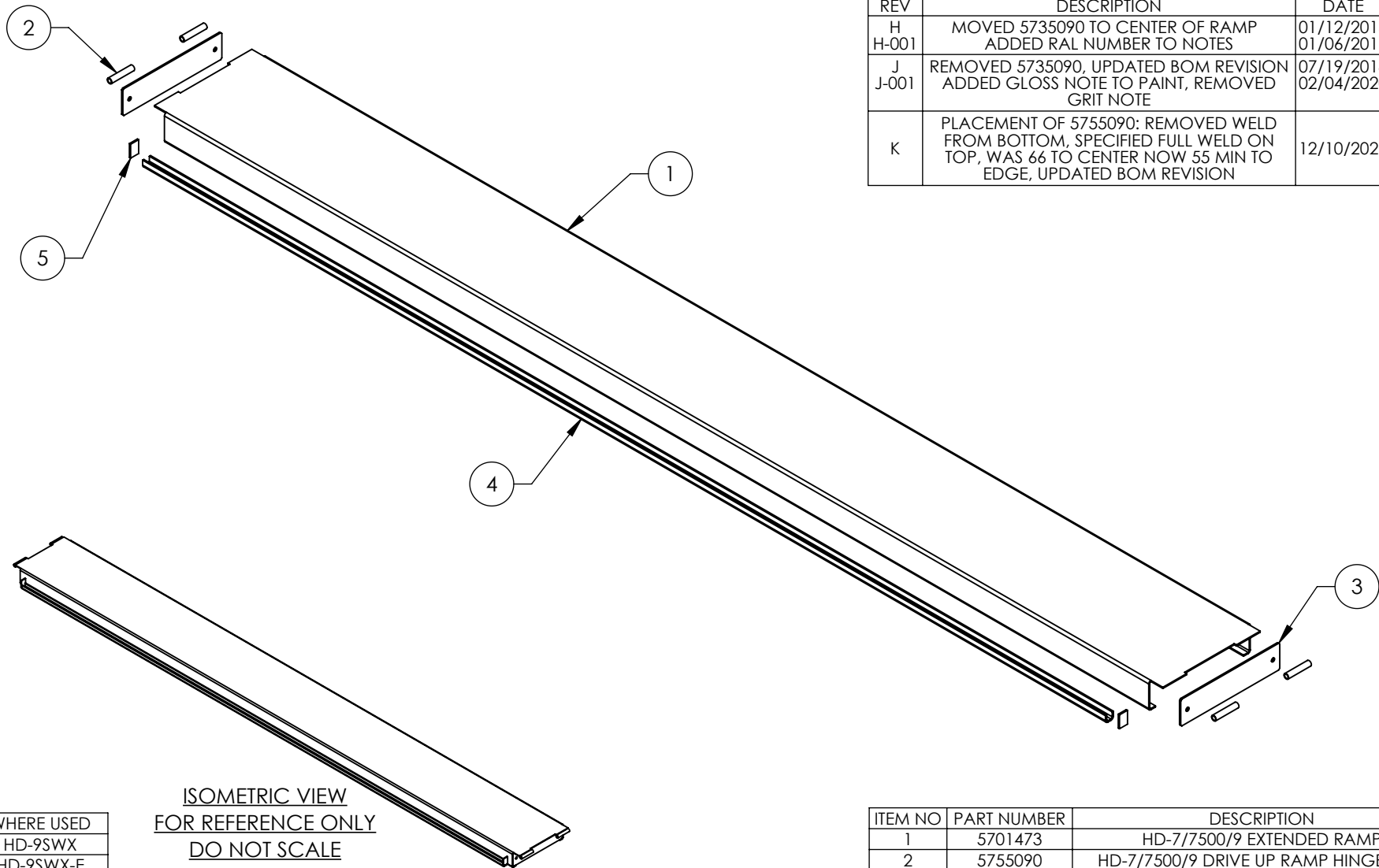
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-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-9SWX-E
HD-9XW
HD-9XL
HD-9STX
HD-7500BLX
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

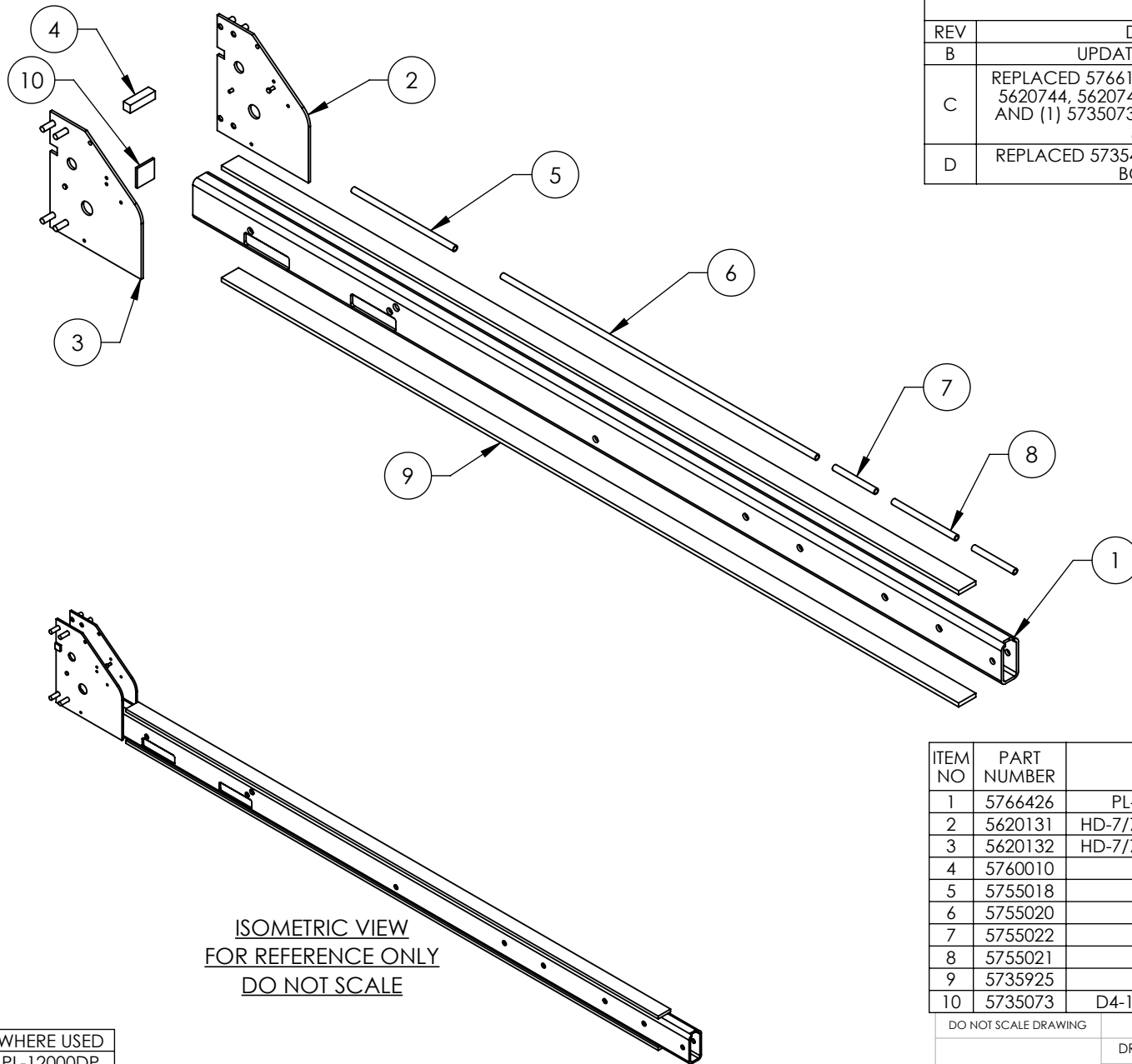
1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
3. REMOVE ALL WELD SPLATTER
4. DIMENSIONS SHOWN ARE AFTER PAINTING
5. PAINT GRAY (RAL-7024) 20% GLOSS

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
H H-001	MOVED 5735090 TO CENTER OF RAMP ADDED RAL NUMBER TO NOTES	01/12/2015 01/06/2017	MR TS	00675 00798
J J-001	REMOVED 5735090. UPDATED BOM REVISION ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	07/19/2018 02/04/2020	TM CA	00975 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 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	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
DRAWN		AC	11/05/2008		
CHECKED		OR	12/21/2021		
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: HD-9/7500BLX OFF SIDE RAMP WELDMENT	
				SIZE DWG. NO. REV A 5600205 K	
		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.		SCALE: 1:20 SHEET 1 OF 3	

NEXT ASSEMBLY
5245079
5245242
5245254
5245381
5245382
5245392
5245393



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
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

NEXT ASSEMBLY
5216082

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
B	UPDATED BOM REVISION	12/10/2021	TM	01367
C	REPLACED 5766187 WITH 5766426, REMOVED 5620744, 5620747, (1) 5755021, (1) 5760010, AND (1) 5735073, UPDATED TITLE TO REFLECT MARKETING	01/28/2022	CA	01381
D	REPLACED 5735460 WITH 5735925, UPDATED BOM REVISION	07/11/2022	TM	01428

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766426	PL-12000DP REAR CROSSTUBE, SMALL WINDOW	1	B
2	5620131	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #2	1	M
3	5620132	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #3	1	M
4	5760010	HD-7/9 CROSSTUBE SAFETY BLOCK	1	B
5	5755018	AIR LINE TROUGH Ø13.5 x Ø9.5 x 297	1	C
6	5755020	AIR LINE TROUGH Ø13.5 x Ø9.5 x 918	1	C
7	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
8	5755021	AIR LINE TROUGH Ø13.5 x Ø9.5 x 184	1	B
9	5735925	PL-12000DP CROSSTUBE STRAP	2	A
10	5735073	D4-12, HD-7/9, HDS/HDSO-14 CARRIAGE TIE BLOCK	1	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 RK	07/23/2021
CHECKED OR	07/27/2022

THIRD ANGLE PROJECTION



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BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

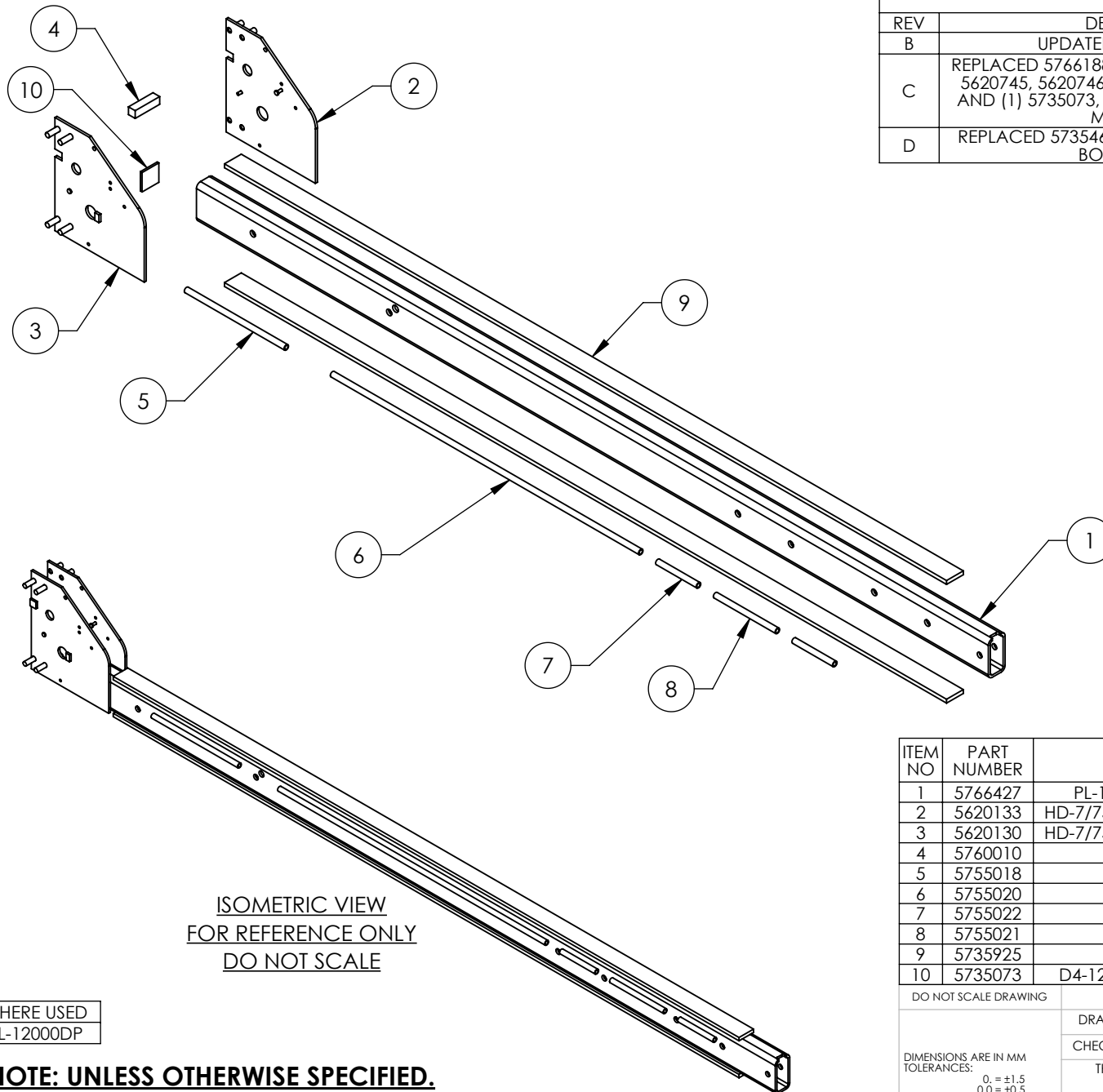
TITLE: PL-12000DP REAR
CROSSTUBE WELDMENT,
SMALL WINDOW

SIZE	DWG. NO.	REV
A	5601734	D

SCALE: 1:13

SHEET 1 OF 2

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
B	UPDATED BOM REVISION	12/10/2021	TM	01367
C	REPLACED 5766188 WITH 5766 427, REMOVED 5620745, 5620746, (1) 5755021, (1) 5760010, AND (1) 5735073, UPDATED TITLE TO REFLECT MARKETING	01/28/2022	CA	01381
D	REPLACED 5735460 WITH 5735925, UPDATED BOM REVISION	07/11/2022	TM	01428



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
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

NEXT ASSEMBLY
5216083

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766427	PL-12000DP REAR CROSSTUBE, LARGE WINDOW	1	B
2	5620133	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #4	1	M
3	5620130	HD-7/7500/9 CROSSTUBE END PLATE SUBWELDMENT #1	1	M
4	5760010	HD-7/9 CROSSTUBE SAFETY BLOCK	1	B
5	5755018	AIR LINE TROUGH Ø13.5 x Ø9.5 x 297	1	C
6	5755020	AIR LINE TROUGH Ø13.5 x Ø9.5 x 918	1	C
7	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
8	5755021	AIR LINE TROUGH Ø13.5 x Ø9.5 x 184	1	B
9	5735925	PL-12000DP CROSSTUBE STRAP	2	A
10	5735073	D4-12, HD-7/9, HDS/HDSO-14 CARRIAGE TIE BLOCK	1	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 RK 07/23/2021
CHECKED OR 07/27/2022

THIRD ANGLE PROJECTION



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SANTA PAULA, CA 93060

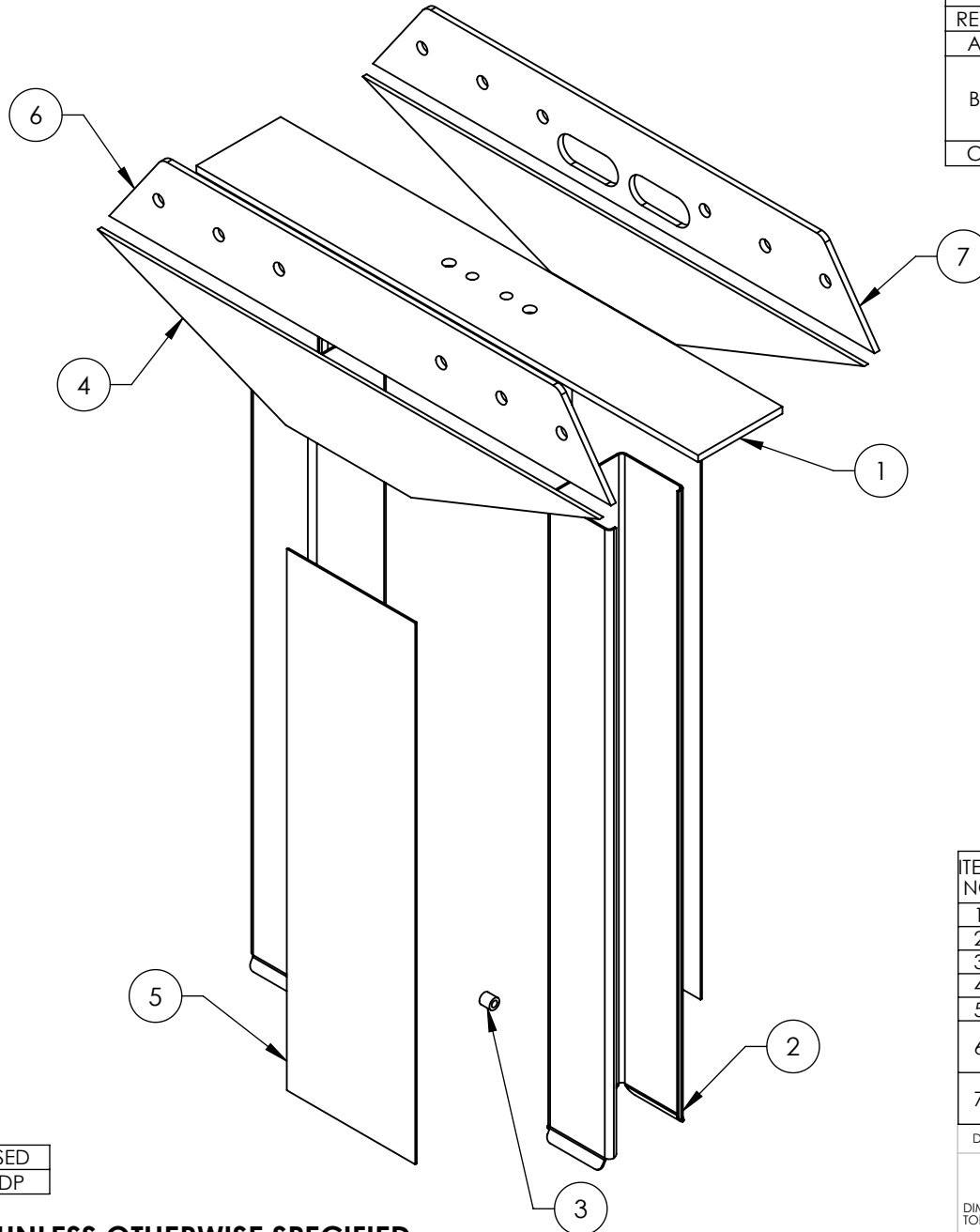
TITLE: PL-12000DP REAR
CROSSTUBE WELDMENT,
LARGE WINDOW

SIZE DWG. NO. REV
A 5601735 D

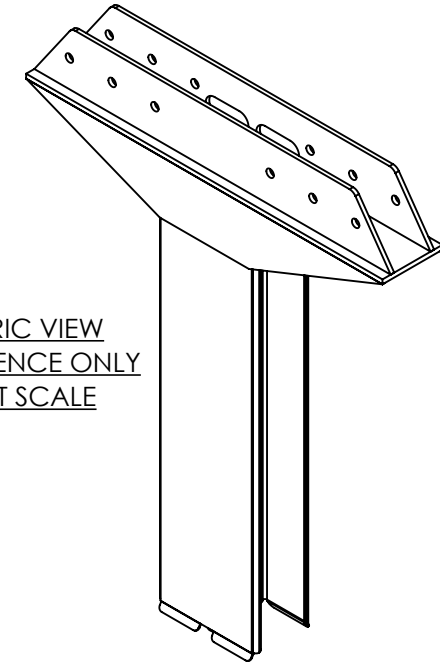
SCALE: 1:13

SHEET 1 OF 2

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5601275	10/05/2021	TM	01351
B	ADDED 5601742-1 AND 5601742-2, 5737314, AND 5737315, WAS 254 NOW 274, WAS 25 NOW 4, UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS	01/31/2022	CA	01381
C	UPDATED BOM REVISIONS	07/12/2022	TM	01428



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5737293	PL-12000DP CENTER TOP PLATE, REAR	1	B
2	5701828	PL-12000DP CENTER BARE SHORT POST, REAR	2	B
3	5601742-1	PL-12000DP CENTER POST SPACER, Ø20 x Ø11 x 20	1	-
4	5601742-2	PL-12000DP SHORT POST GUSSET	2	-
5	5735892	PL-12000DP CENTER REAR POST STIFFENING STRIP, SHORT	2	B
6	5737314	PL-12000DP SHORT POST TOP TUBE CONNECTOR PLATE, EXTERNAL	1	A
7	5737315	PL-12000DP SHORT POST TOP TUBE CONNECTOR PLATE, INTERNAL	1	B

WHERE USED
PL-12000DP

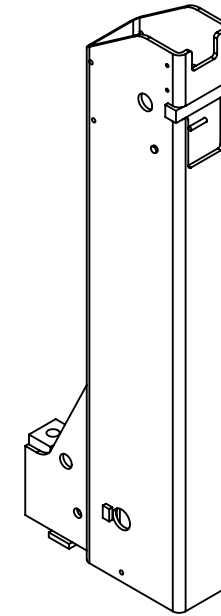
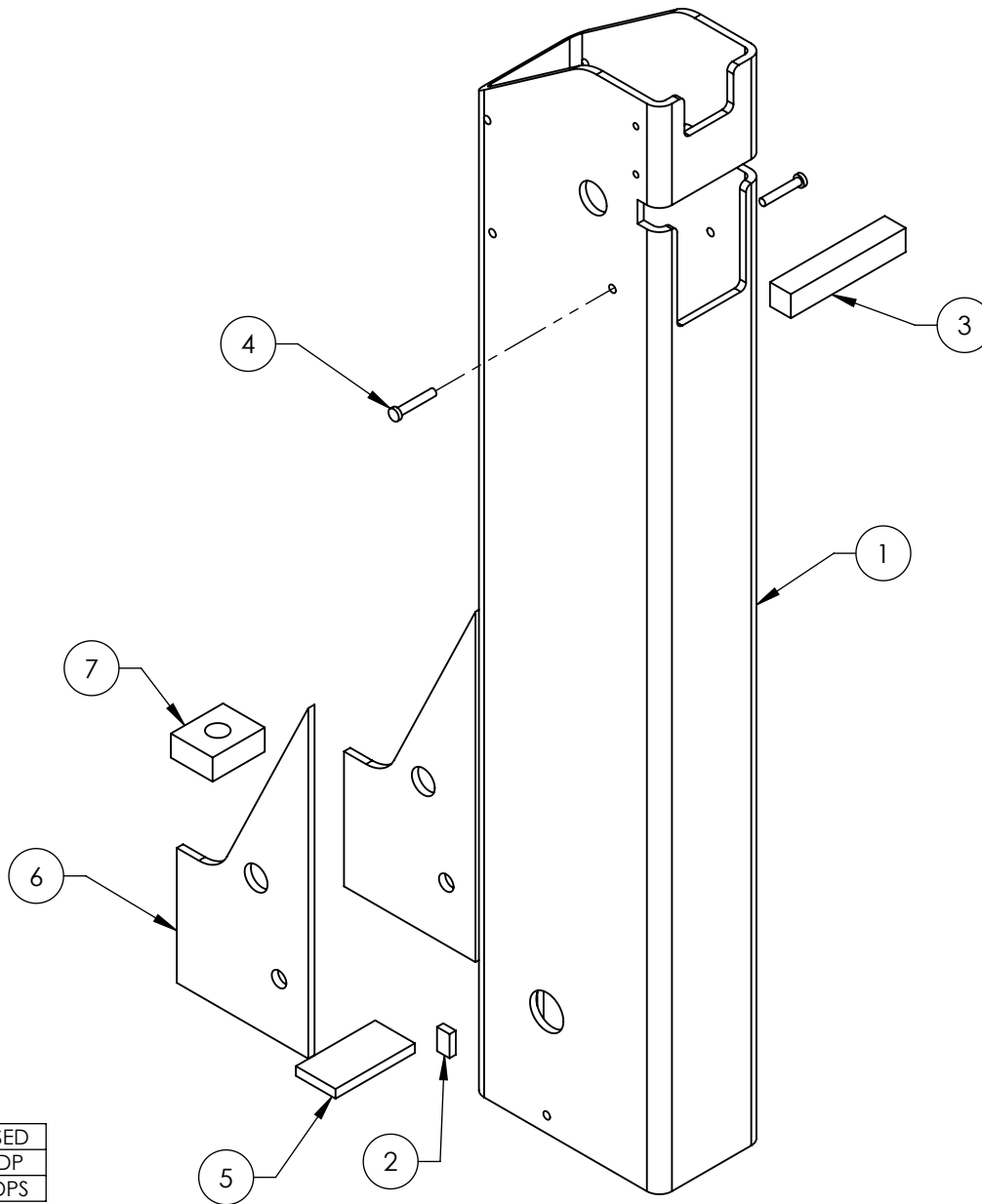
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5245242

DO NOT SCALE DRAWING		NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
DRAWN		RK	07/16/2021		
CHECKED		OR	07/27/2022		
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE: PL-12000DP SHORT POST WELDMENT	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				SIZE DWG. NO. REV	
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		5601742 C	
		SCALE: 1:10		SHEET 1 OF 3	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE	01/25/2022	CA	01381
B	ADDED 5735926, ADDED PARALLELISM TO 5737316, WAS 266.0 NOW 306.0, UPDATED BOM REVISIONS	07/11/2022	TM	01428
C	UPDATED BOM REVISION	09/16/2022	CA	01444



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
PL-12000DP
PL-12000DPS

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	5737292	PL-12000DP REAR CROSSTUBE END, TALL	1	C
2	5735028	PIN STOP	1	B
3	5760012	PL-12000DP REAR CROSSTUBE END SAFETY BLOCK	1	A
4	5746647	PL-12000DP REAR CROSSTUBE END SAFETY STOP PIN	2	A
5	5735914	PL-12000DP REAR CROSSTUBE END BOTTOM SUPPORT PLATE	1	B
6	5737316	PL-12000DP REAR CROSSTUBE END MOUNT PLATE	2	B
7	5735926	PL-12000DP REAR CROSSTUBE ADJUSTMENT BLOCK	1	B

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM
TOLERANCES:

0. = ± 1.5
0.0 = ± 0.5

SURFACE FINISH 1.6 ISO Ra μ m
FOR MACHINED SURFACES
UNLESS OTHERWISE SPECIFIED

NAME	DATE
DRAWN RK	01/20/2022
CHECKED OR	09/21/2022

THIRD ANGLE PROJECTION



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1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: PL-12000DP REAR
CROSSTUBE
WELDMENT END, TALL

SIZE DWG. NO. REV

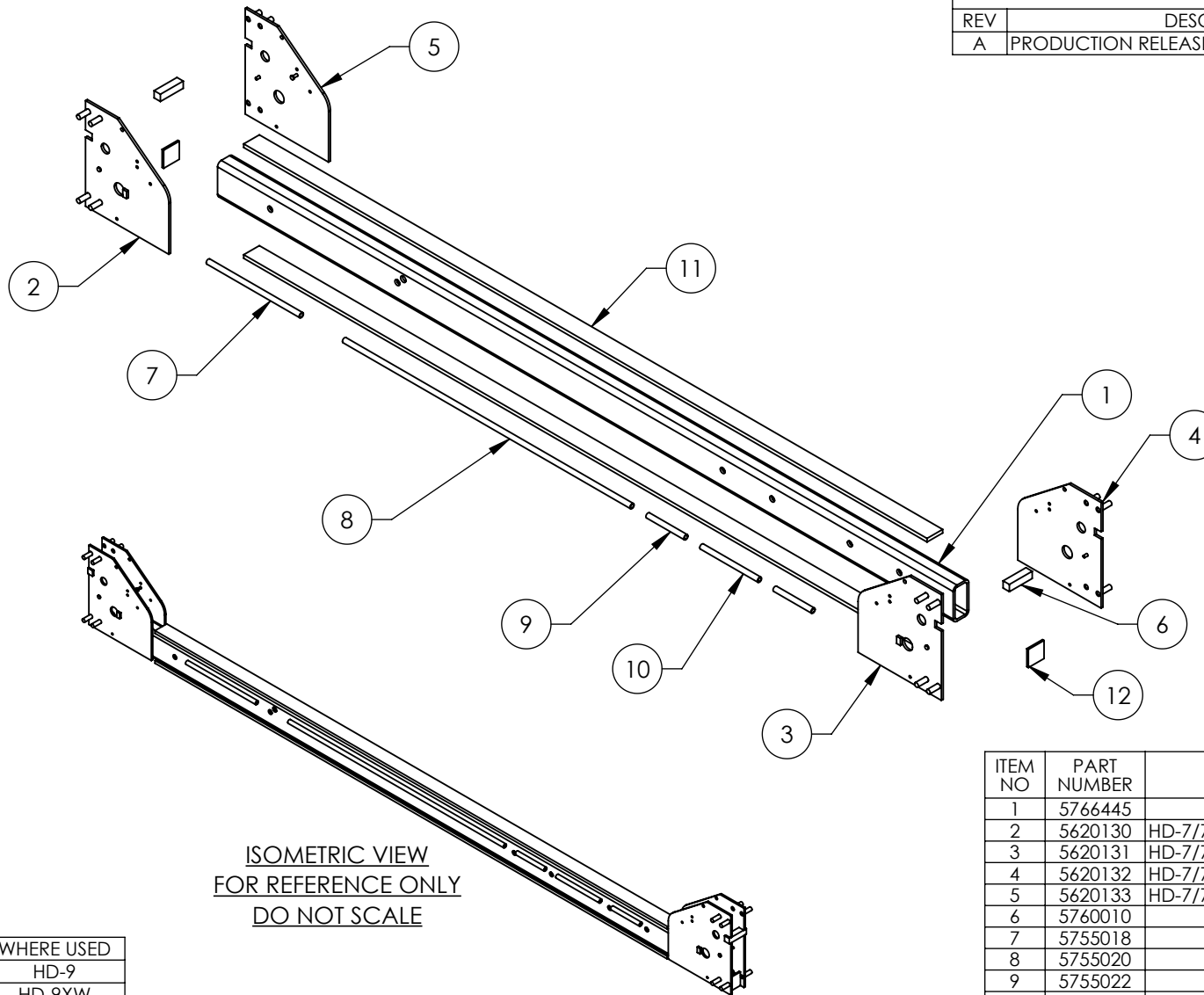
A 5601770 **C**

SCALE: 1:5

SHEET 1 OF 2

NEXT ASSEMBLY
5216082
5216083

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



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1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

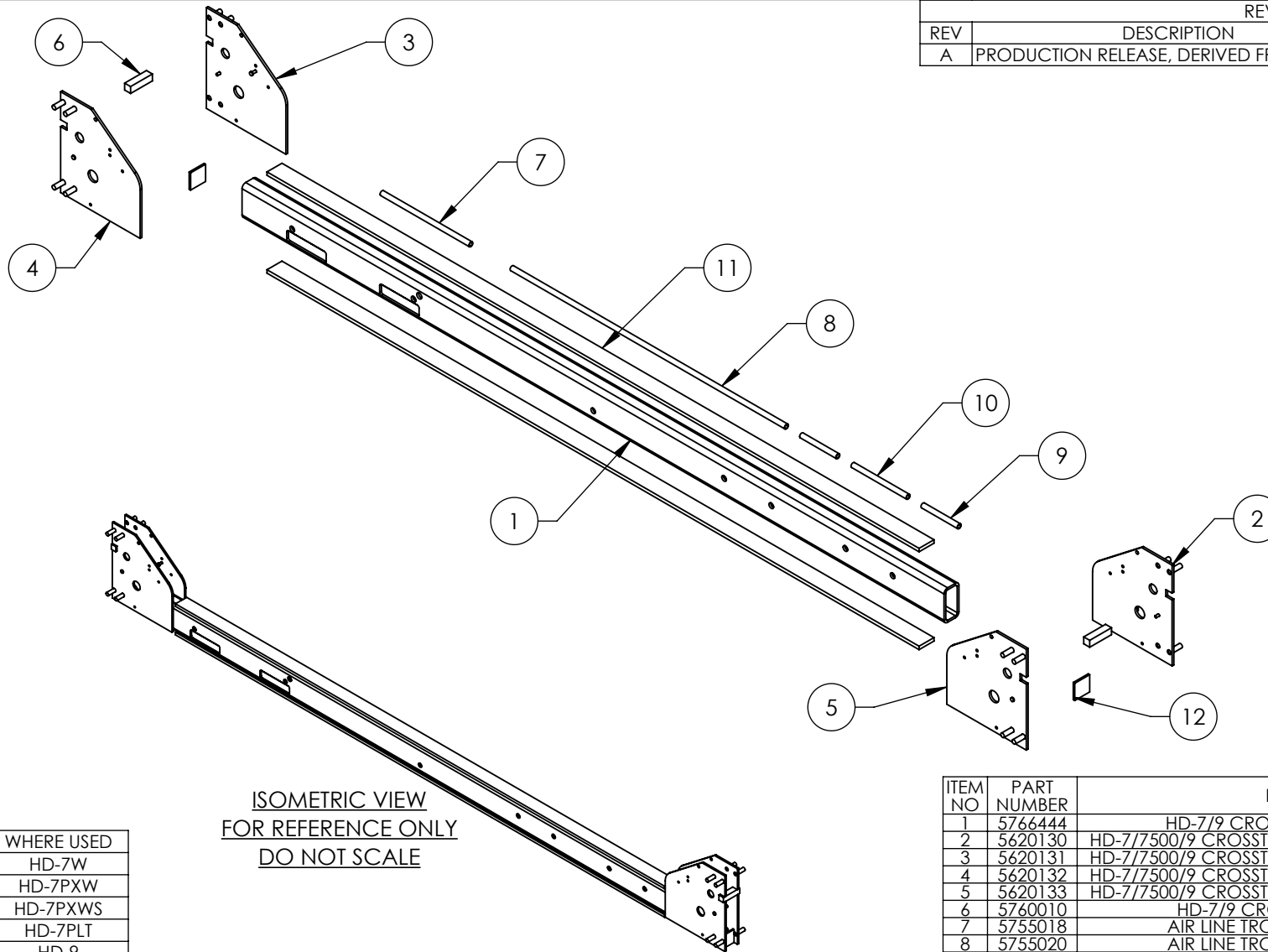
TITLE: HD-9/973P CROSSTUBE
WELDMENT, LARGE WINDOW

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-7PLT
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

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 06/10/2022

THIRD ANGLE PROJECTION



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1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

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

SIZE DWG. NO. REV

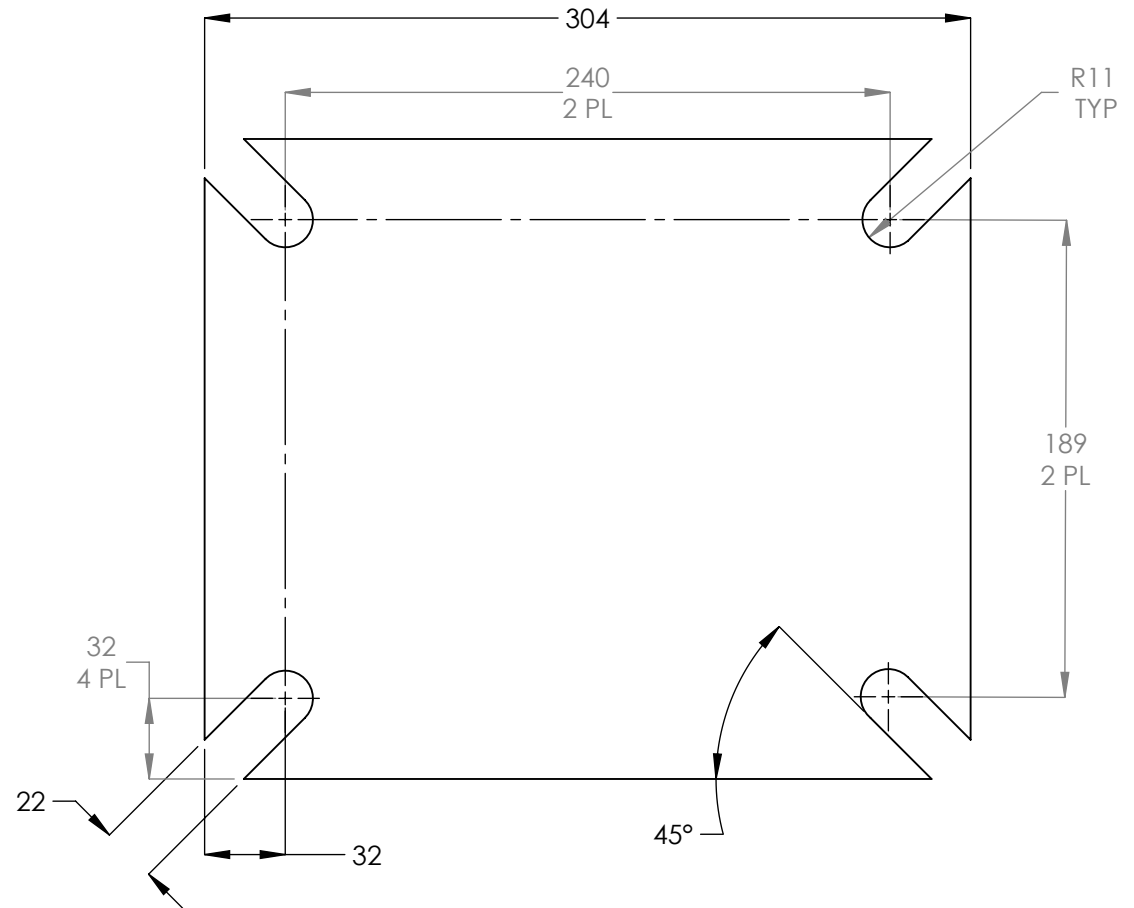
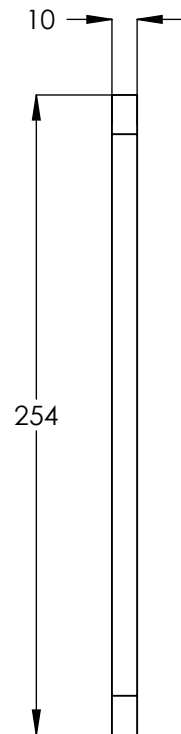
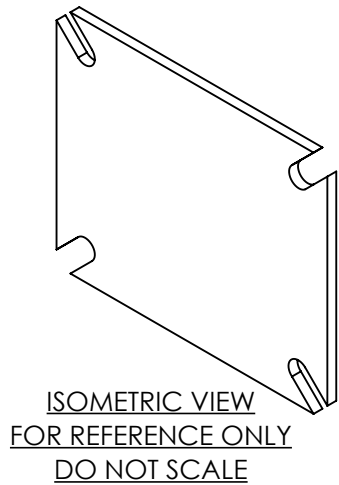
A 5601822 **A**

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



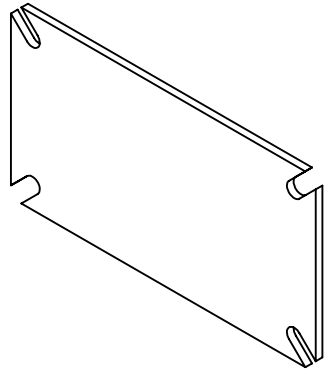
WHERE USED
HD-7 SERIES
HD-9 SERIES
HD-14T
HDS-14 SERIES
D4-12 SERIES
PL-12000DP

NOTE: UNLESS OTHERWISE SPECIFIED.

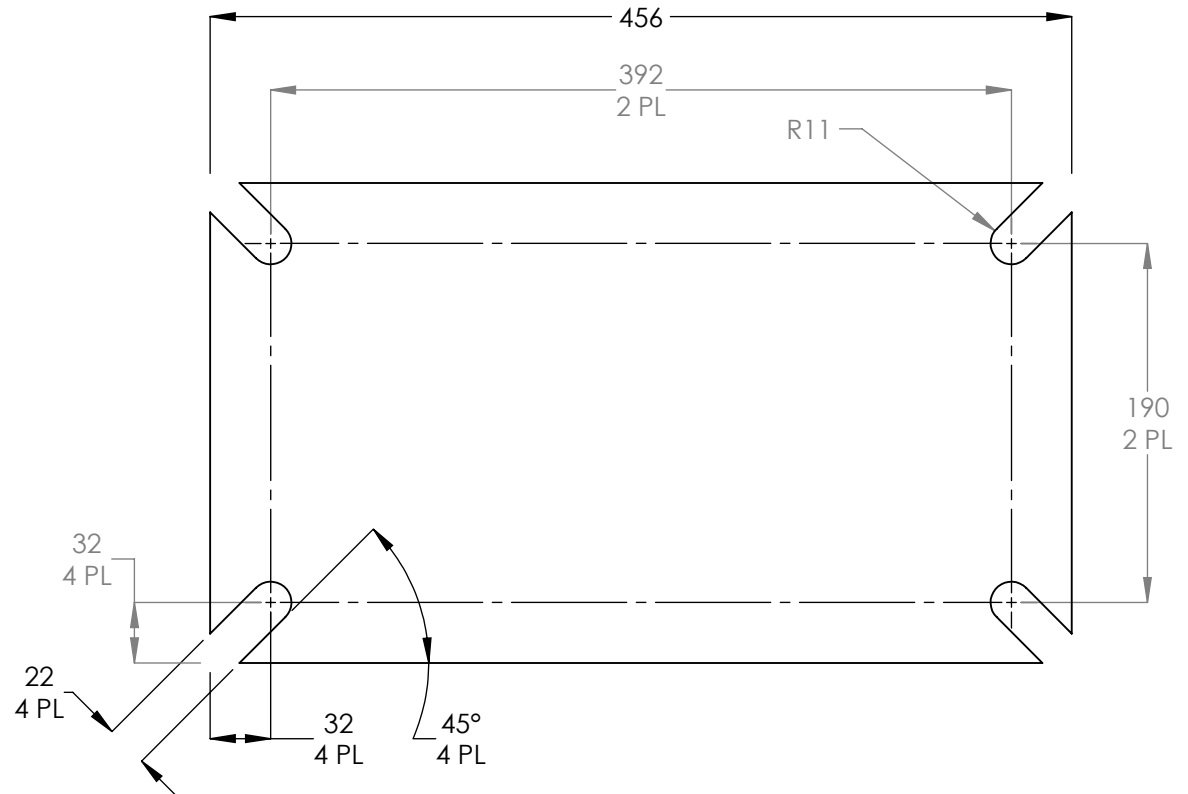
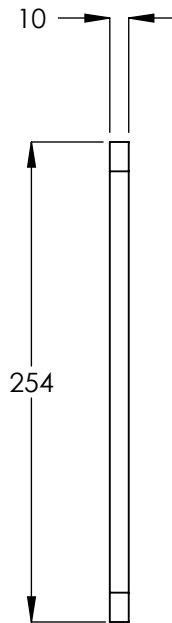
1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. BREAK AND DEBURR ALL SHARP EDGES 0.3mm
3. **MATERIAL:** HR ASTM A36 OR Q235 GB/T 700

NEXT ASSEMBLY		
5601126	5601158	5601865
5601127	5601159	5601866
5601133	5601410	5601867
5601134	5601739	5620605
5601135	5601740	5620606
5601136	5601780	5620669
5601137	5601859	5620670
5601138	5601860	5601779
5601139	5601863	
5601140	5601864	

DO NOT SCALE DRAWING		NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		DRAWN	TS	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		CHECKED	CA	
THIRD ANGLE PROJECTION				TITLE:
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		A 5731045		REV
		SCALE: 1:3		A SHEET 1 OF 1



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5731045	07/10/2018	TM	00972
B	UPDATED TITLE TO REFLECT MARKETING, UPDATED NEXT ASSEMBLY	01/25/2019	TS	01039

WHERE USED
HD-973 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
4. FLAME CUT PERMISSABLE

NEXT ASSEMBLY
5601274
5601275
5601299
5601386
5601387
5601392
5601662
5601663
5601664
5601672
5601673
5601674
5601743
5601858

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	06/28/2018
CHECKED CA	04/10/2019

THIRD ANGLE PROJECTION



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1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:

HD-973 POST BASE PLATE

SIZE DWG. NO.

A 5731052

REV

B

SCALE: 1:4

SHEET 1 OF 1

PART SPECIFICATION FORM (STANDARD)

BENDPAK Number:	5900033
MRP Description:	HD-9SW/SWX INSTALLATION MANUAL
Date:	08/30/2022
ECO :	---

1. Engineering Specification

Application:

INSTALLATION MANUAL

Detailed Description:

Print Settings

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

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



1645 Lemonwood Dr.
Santa Paula, CA 93060 USA
Tel: (805) 253-2263
Tel: (805) 933-9970
bendpak.com

HD-9 Four-Post Lift

Installation and Operation Manual

Manual P/N 5900033 — Manual Revision H2 — August 2022

Models:

- HD-9SW
- HD-9SW-E
- HD-9SWX



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



IMPORTANT Safety Instructions, save these instructions! 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 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			