

Service Manual

SERVICE PARTS & DIAGRAMS

BENDPAK

HD-973P

PRODUCT SKU
5175238

DRAWING N°
5260242

CATEGORY
Four Post Lift

REV
Version U

DATE
10.14.2022

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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info@bendpak.com

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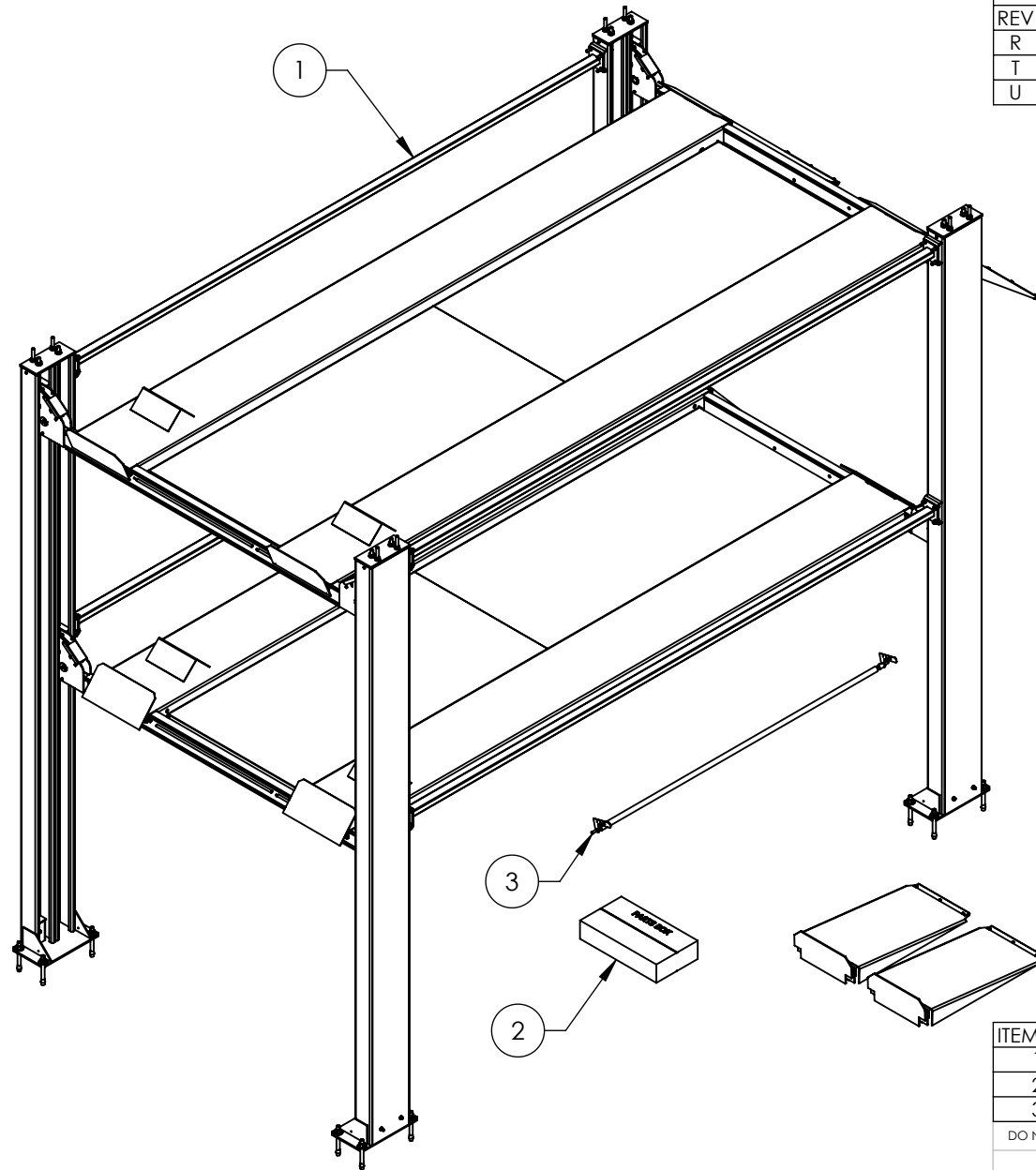
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Office Tel: 1-805-933-9970
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Fax: 1-805-933-9160
sales@bendpak.com

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

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
R	UPDATED BOM REVISION	12/13/2021	TM	01367
T	UPDATED BOM REVISIONS	05/24/2022	TM	01414
U	UPDATED BOM REVISIONS	10/11/2022	CA	01448

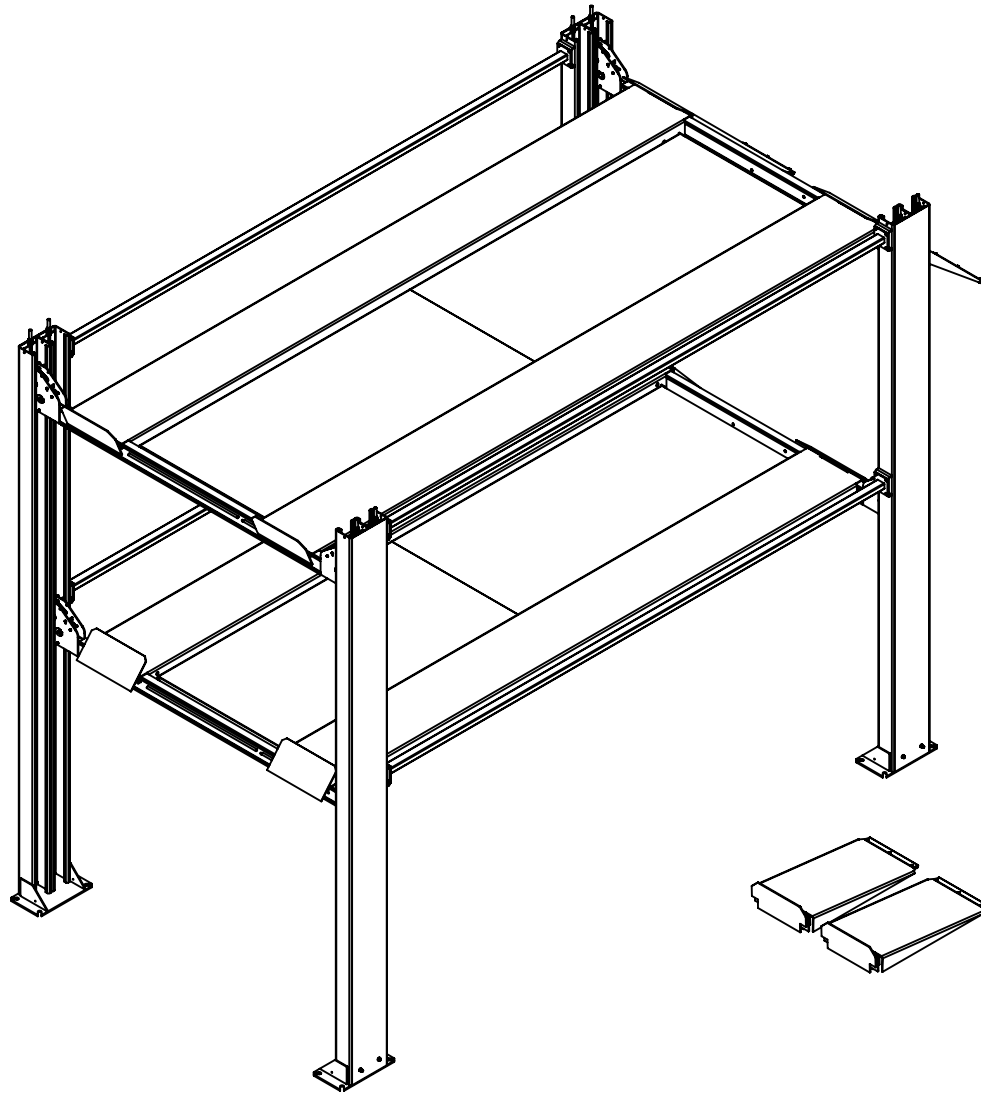


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5245059	HD-973P LIFT SUPERSTRUCTURE	1	Q
2	5250081	HD-973P PARTS BOX	1	J
3	5215818	HD-973 MICRO SWITCH STOP BAR ASSEMBLY	1	A

DO NOT SCALE DRAWING		NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		TM	07/11/2018	
CHECKED				
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: HD-973P PRODUCTION LIFT VER A
 <small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>				SIZE DWG. NO. REV
		A 5260242 U		SCALE: 1:40 SHEET 1 OF 5

NOTE: UNLESS OTHERWISE SPECIFIED.

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



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
N	UPDATED BOM REVISIONS	12/10/2021	TM	01367
P	REPLACED 5215621 WITH 5215155, 5215622 WITH 5215156, 5215624 WITH 5215157	05/23/2022	TM	01414
Q	UPDATED BOM REVISIONS	10/10/2022	CA	01448

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601274	HD-973P POWER SIDE POST WELDMENT	1	D
2	5601275	HD-973P OFF SIDE POST WELDMENT	2	C
3	5601299	HD-973P OFF SIDE POST WELDMENT, L.H.	1	B
4	5216155	HD-7/9/973P, PL-12000 CROSSTUBE ASSEMBLY, SMALL WINDOW	2	A
5	5216156	HD-9/973P, PL-12000 CROSSTUBE ASSEMBLY, LARGE WINDOW	1	A
6	5216157	HD-7W/973P CROSSTUBE ASSEMBLY, LARGE WINDOW	1	A
7	5600921	HD-7/973/7500 SAFETY LADDER WELDMENT	4	C
8	5601281	HD-973 LOWER RAMP SAFETY LADDER WELDMENT	4	C
9	5530167	HHB M10 x 1.5 x 45mm	4	-
10	5530748	HHB M10 x 1.5 x 100mmL	4	-
11	5746381	HD-7/7500/ 9 SPACER, SAFETY LADDER, 17.5mm LG	8	B
12	5545341	WASHER M10 x Ø20 FLAT	16	-
13	5535013	NUT M10 x 1.5 NL	8	-
14	5535021	NUT M16 x 2.0	8	-
15	5535008	NUT M16 x 2 NL	8	-
16	5545025	WASHER, M16 x 30mm FLAT	8	-
17	5215787	HD-973P LOWER POWER SIDE RAMP ASSEMBLY	1	J
18	5601271	HD-973P LOWER OFF SIDE RAMP WELDMENT	1	D
19	5215817	HD-973P UPPER POWER SIDE RAMP ASSEMBLY	1	H
20	5601295	HD-973P UPPER OFF SIDE RAMP WELDMENT	1	B
21	5600890	HD-7/7500/9, PL-12000 TIRE STOP PLATE WELDMENT	2	F
22	5601356	HD-973 TIRE STOP WELDMENT	2	B
23	5215131	HD-7/9 EXTENDED DRIVE UP RAMP ASSEMBLY	2	H
24	5215193	HD-7/9/7500BL DRIVE UP RAMP ASSEMBLY	2	G
25	5601296	HD-973P STIFFENER TUBE WELDMENT	4	B
26	5601293	HD-973P ALUMINUM LONG SOLID DECK WELDMENT	3	C
27	5601273	HD-973P ALUMINUM SHORT SOLID DECK WELDMENT	1	D
28	5701784	PLASTIC RAMP COVER, 1118mm	8	B
29	5701783	PLASTIC RAMP COVER, 1040.5mm	8	B
30	5174220	HD-9 ALUMINUM APPROACH RAMP ASSEMBLY	2	G
31	5735728	HD DROP IN TIRE STOP	2	A

WHERE USED
HD-973P

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- THREAD M16 HARDWARE ONTO LADDER BOLTS AS SHOWN

NEXT ASSEMBLY
5260242

DO NOT SCALE DRAWING

NAME	DATE
DRAWN TM	06/28/2018
CHECKED	



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION



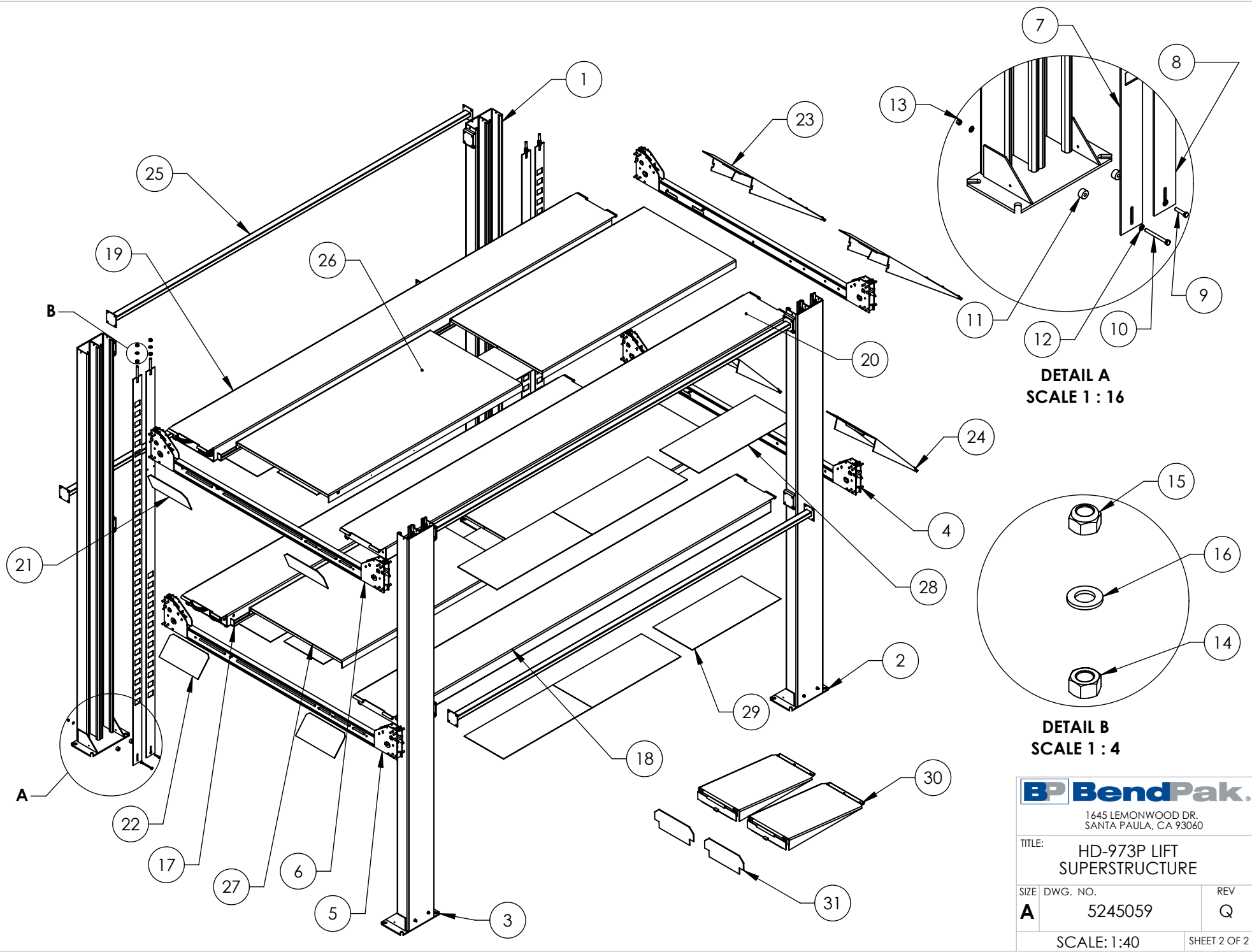
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TITLE:
HD-973P LIFT SUPERSTRUCTURE

SIZE	DWG. NO.	REV
A	5245059	Q

SCALE: 1:45

SHEET 1 OF 2



DETAIL A
SCALE 1 : 16

DETAIL B
SCALE 1 : 4

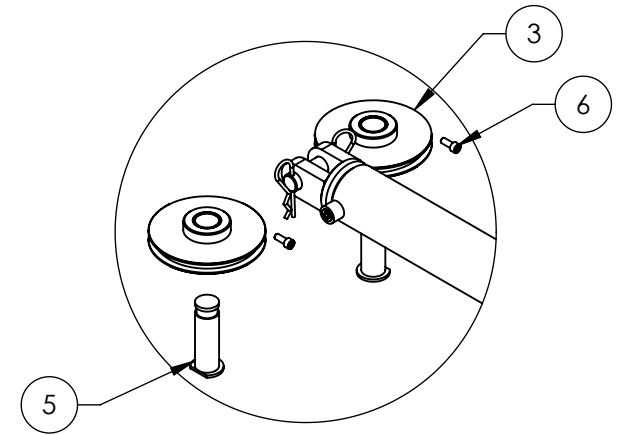
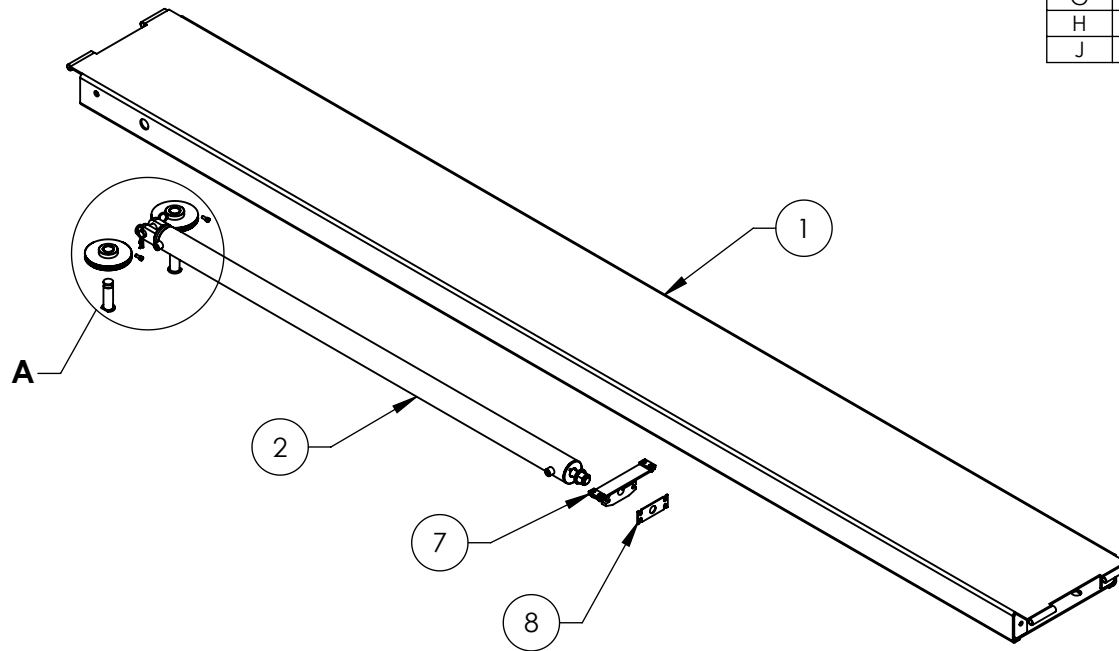


1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

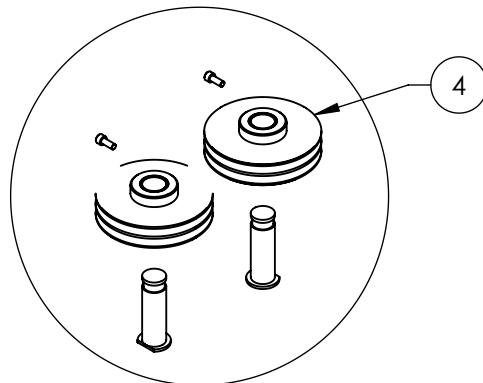
TITLE: HD-973P LIFT
SUPERSTRUCTURE

SIZE	DWG. NO.	REV
A	5245059	Q

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
G	UPDATED BOM REVISION	07/14/2021	TM	01316
H	UPDATED BOM REVISION	12/10/2021	TM	01367
J	UPDATED BOM REVISION	09/23/2022	CA	01448



**DETAIL A
SCALE 1 : 10**



**DETAIL B
SCALE 1 : 10**

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601270	HD-973P LOWER POWER SIDE RAMP WELDMENT	1	F
2	5502037	CYLINDER ASSEMBLY Ø2.75 x 70"	1	D
3	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
4	5215123	HD-7500BL/9 TWIN SHEAVE ASSEMBLY	2	E
5	5600900	HD-7/7500/9 RAMP SHEAVE SHAFT WELDMENT	4	E
6	5530776	SHCS M8 x 1.25 x 20mm	4	-
7	5215910	HD-973 CYLINDER FLANGE ARM ASSEMBLY	1	B
8	5731309	CABLE RETAINER PLATE	1	A

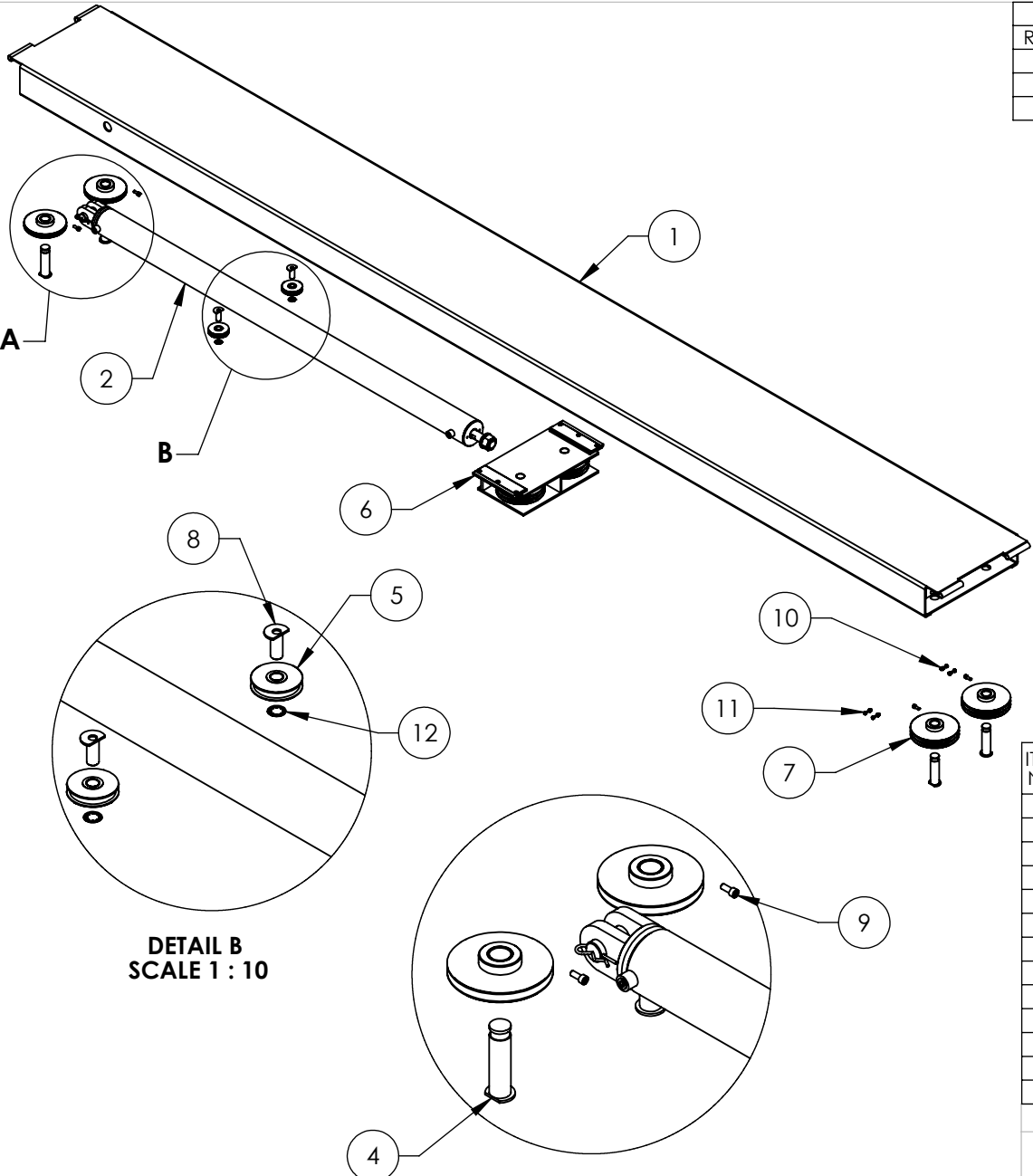
WHERE USED
HD-973P

NOTE: UNLESS OTHERWISE SPECIFIED.

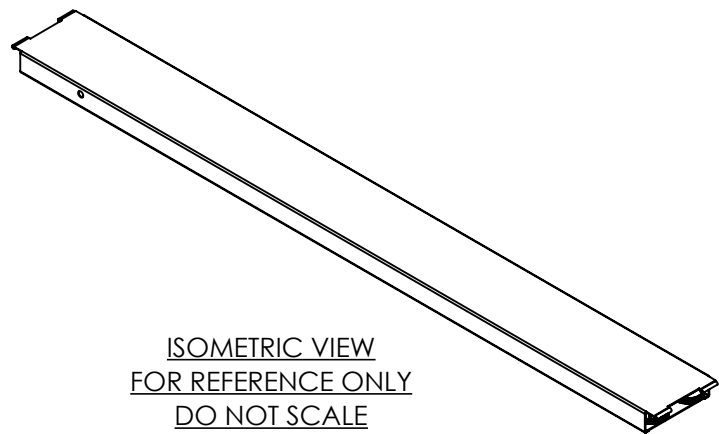
- REFER TO MODEL FOR ADDITIONAL INFORMATION
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5245059

DO NOT SCALE DRAWING	NAME	DATE	<p>1645 LEMONWOOD DR. SANTA PAULA, CA 93060</p>
	DRAWN	TM 06/28/2018	
	CHECKED		
DIMENSIONS ARE IN MM	THIRD ANGLE PROJECTION		<p>TITLE: HD-973P LOWER POWER SIDE RAMP ASSEMBLY</p> <p>SIZE DWG. NO. A 5215787</p> <p>REV J</p>
			<p>SCALE: 1:25</p> <p>SHEET 1 OF 2</p>
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REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
F	UPDATED BOM REVISION	03/26/2021	TM	01290
G	UPDATED BOM REVISION	07/14/2021	TM	01316
H	UPDATED BOM REVISION	12/10/2021	TM	01367



DETAIL B
SCALE 1 : 10

DETAIL A
SCALE 1 : 10

WHERE USED
HD-973P

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
 2. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5245059

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5601294	HD-973P UPPER POWER SIDE RAMP WELDMENT	1	E
2	5502035	CYLINDER ASSEMBLY Ø3.5 x 70 - SLOW	1	C
3	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
4	5601300	HD-7MZ/973 RAMP SHEAVE SHAFT WELDMENT	4	B
5	5575103	HD-7/973/7500PBX 76mm DIRECTION SHEAVE ASSEMBLY	2	E
6	5215819	HD-7MZ/973 PULL BOX ASSEMBLY	1	D
7	5215185	HD-7/7500/973 TWIN SHEAVE ASSEMBLY	2	C
8	5600301	HD-7/7500/973 DIRECTIONAL SHEAVE PIN WELDMENT	2	C
9	5530776	SHCS M8 x 1.25 x 20mm	4	-
10	5535357	NUT M6 x 1.0 NL	4	-
11	5530047	HHB, M6 x 1 x 30mmL	4	-
12	5505032	ROTOR CLIP Ø18mm SS	2	-
13	5745031	HD-7MZ/973 SHEAVE SPACER	2	A

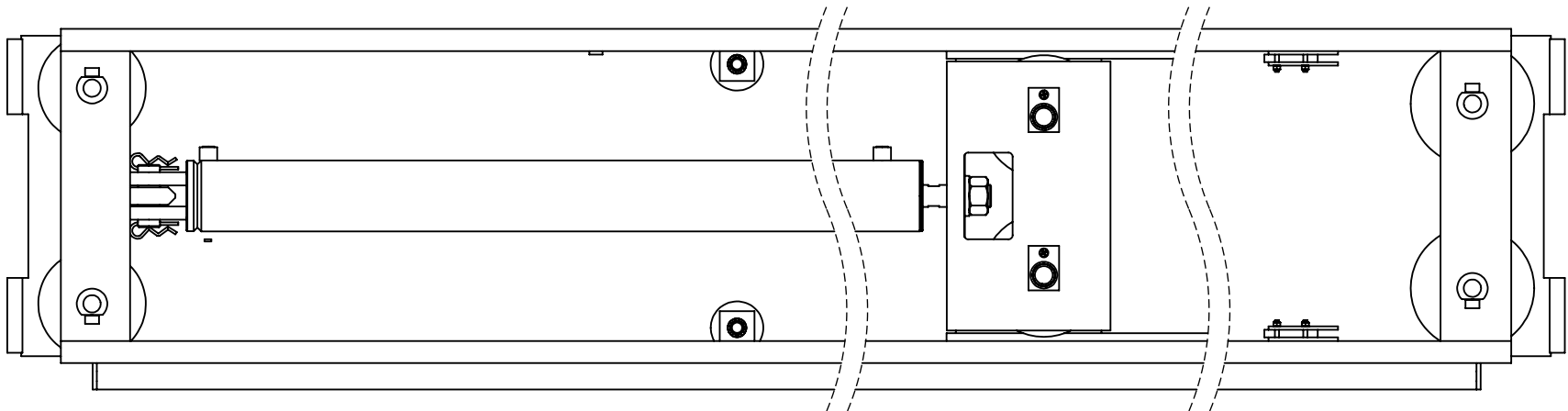
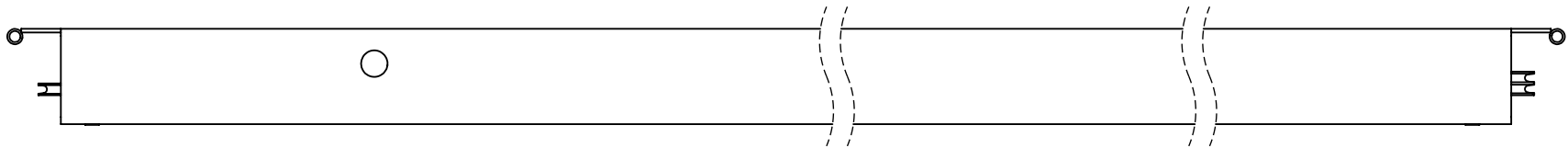
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 DRAWN: TM, DATE: 01/16/2019
 CHECKED: _____

BendPak
 1645 LEMONWOOD DR.
 SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM
 THIRD ANGLE PROJECTION

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TITLE: HD-973P UPPER POWER SIDE RAMP ASSEMBLY
 SIZE DWG. NO. A 5215817 REV H
 SCALE: 1:25 SHEET 1 OF 2



BP BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

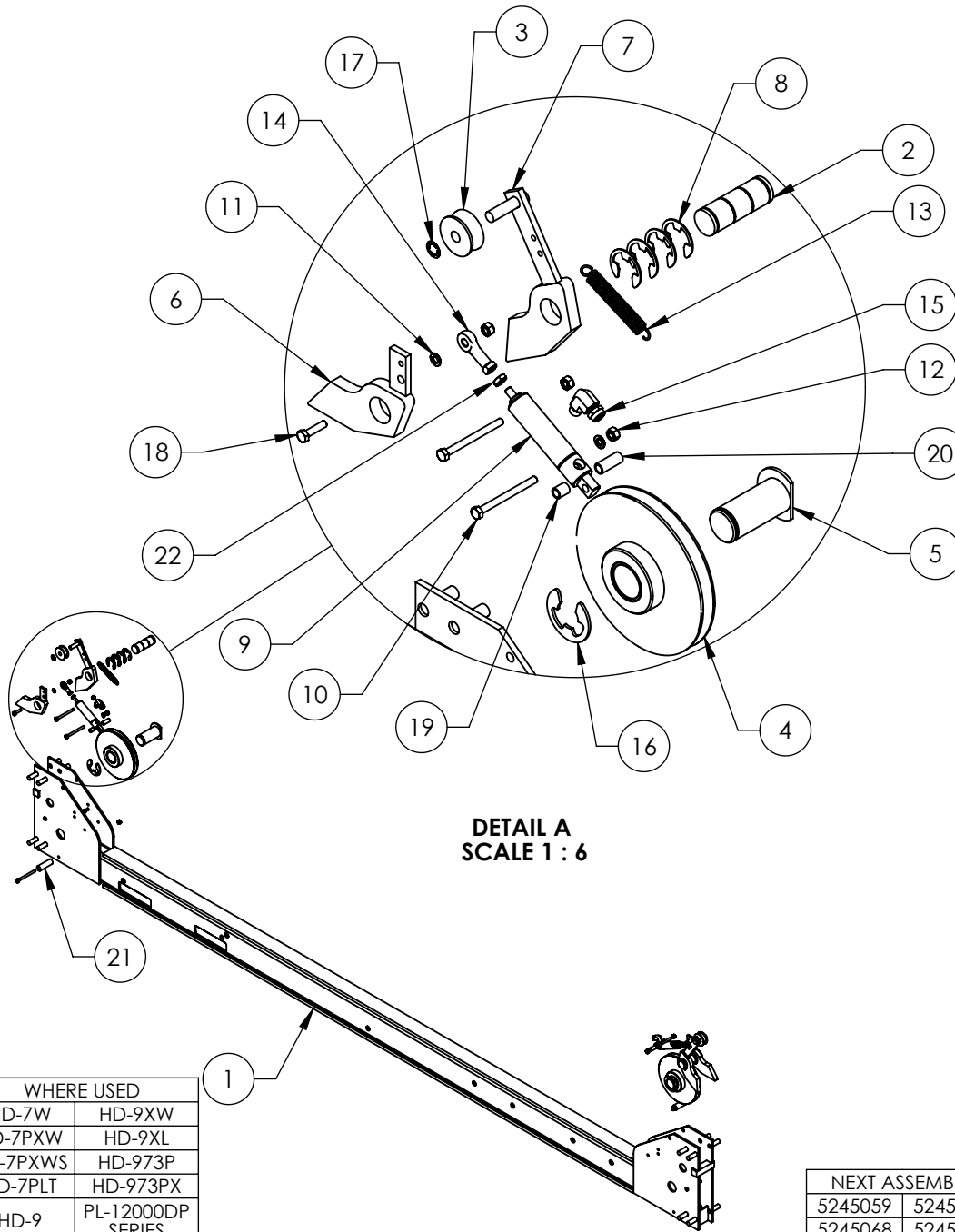
TITLE: HD-973P UPPER POWER
SIDE RAMP ASSEMBLY

SIZE	DWG. NO.	REV
A	5215817	H

SCALE: 1:10

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	5755159	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

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



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SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

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



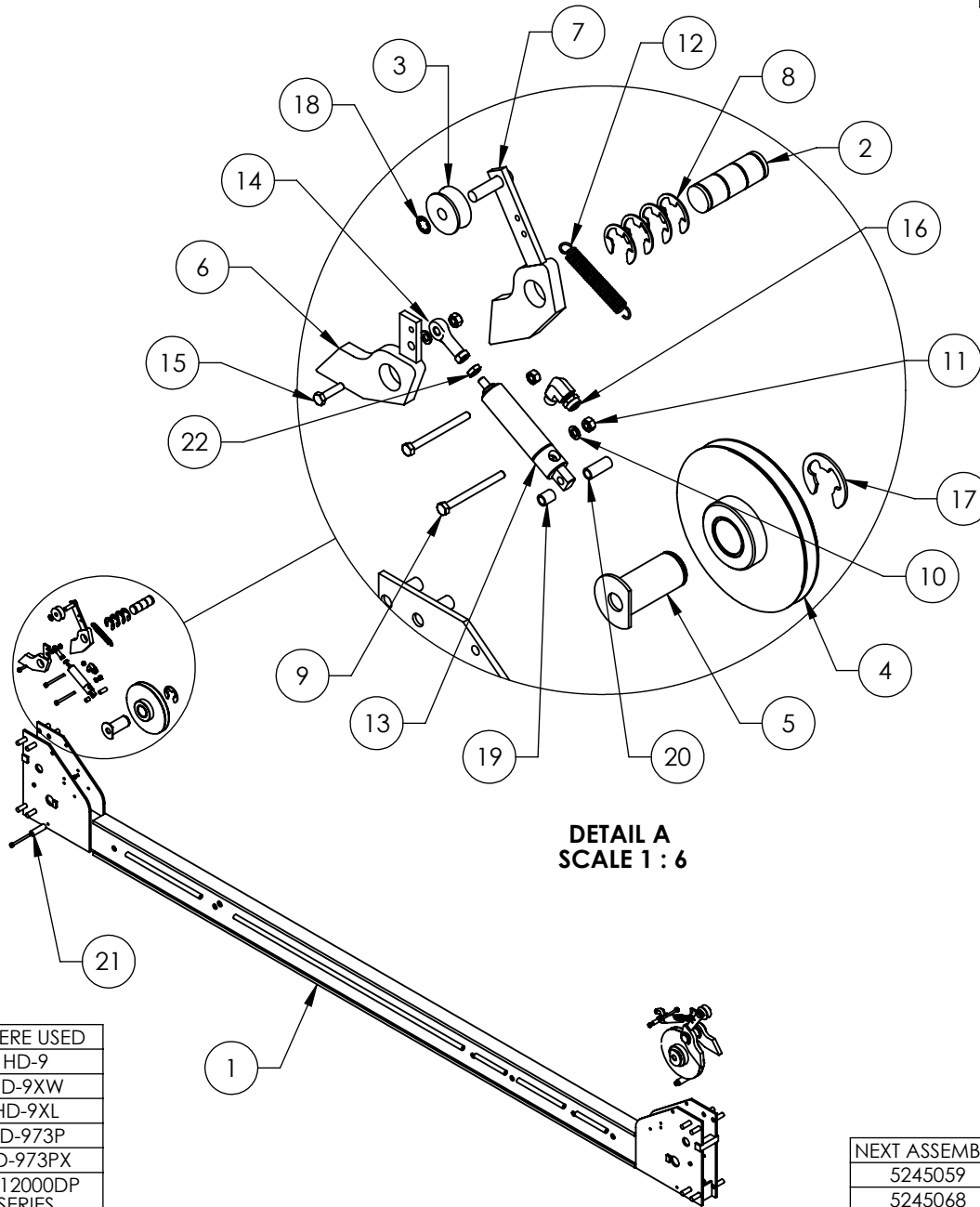
SIZE DWG. NO. REV
A 5216155 A

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SCALE: 1:20

SHEET 1 OF 1

REV	DESCRIPTION	REVISION	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	-

NEXT ASSEMBLY
5245059
5245068
5245242
5245255
5245381
5245382
5245383

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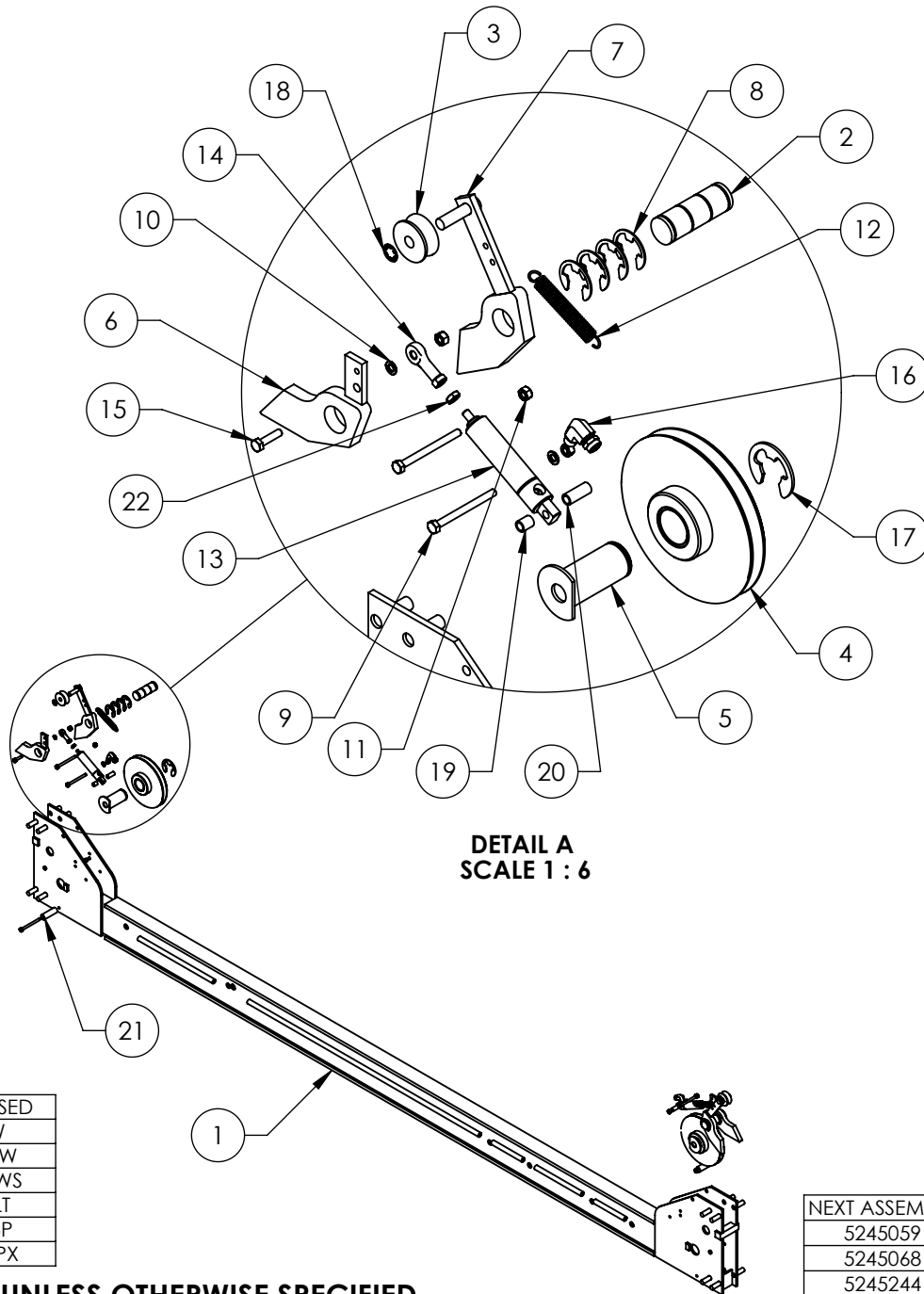
TITLE: HD-9/973P, PL-12000
CROSSTUBE ASSEMBLY,
LARGE WINDOW

SIZE	DWG. NO.	REV
A	5216156	A

SCALE: 1:20

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215624	05/02/2023	TM	01414



WHERE USED
HD-7W
HD-7PXW
HD-7PXWS
HD-7PLT
HD-973P
HD-973PX

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5245059
5245068
5245244
5245256
5245384
5245385

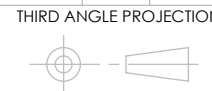
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601823	HD-7W/973P CROSSTUBE WELDMENT, LARGE WINDOW	1	A
2	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	2	D
3	5575420	HD-7/7500/9 SAFETY ROLLER	2	C
4	5215122	HD-7/7500/9 SINGLE SHEAVE ROLLER ASSEMBLY	2	E
5	5600160	HD-7/7500/9 CROSSTUBE SHEAVE SHAFT WELDMENT	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

NAME	DATE
DRAWN TM	05/02/2022
CHECKED OR	06/10/2022

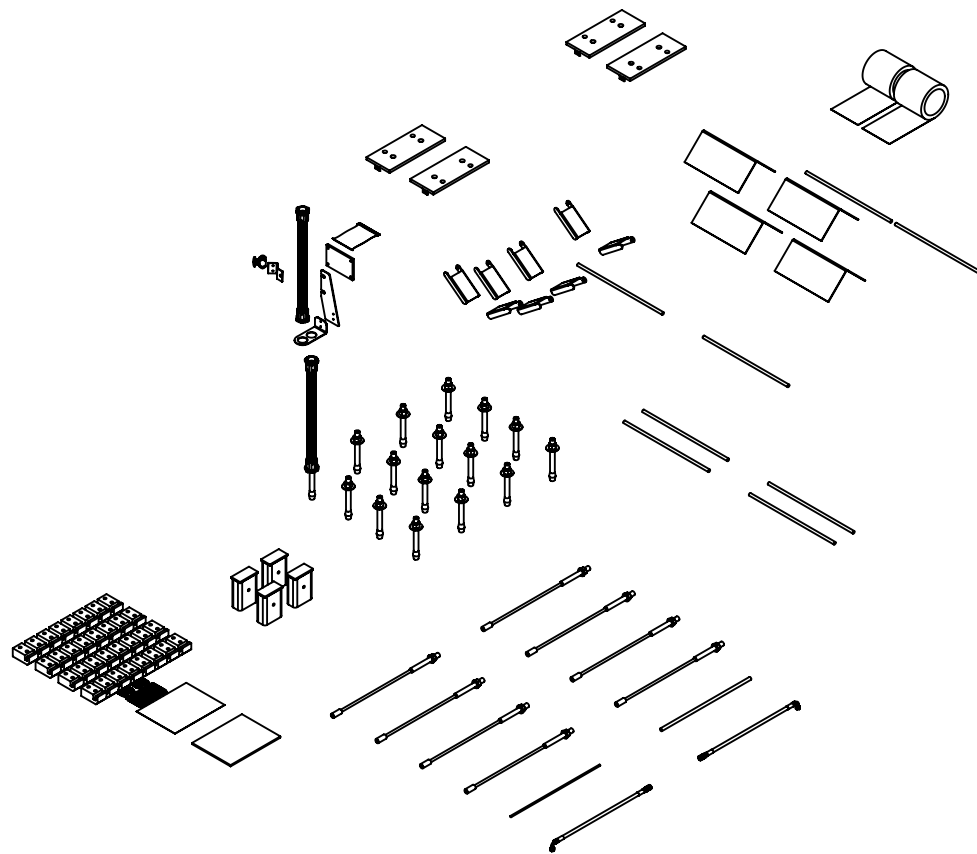
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 SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM



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TITLE:	
HD-7W/973P CROSSTUBE ASSEMBLY, LARGE WINDOW	
SIZE DWG. NO.	REV
A 5216157	A
SCALE: 1:20	
SHEET 1 OF 1	



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
G	UPDATED BOM REVISION	07/14/2021	TM	01316
H	ADDED 5930195, REPLACED 5570239 WITH 5216139 AND 5570055 WITH 5216141	05/04/2022	TM	01414 PRE A
J	UPDATED BOM REVISION	10/11/2022	CA	01448

ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5174027	HD-973P PARTS BAG	1	E
2	5595467	CABLE ASSEMBLY Ø10 x 5704mm ST	1	C
3	5595053	CABLE ASSEMBLY Ø10 x 7301mm ST	1	F
4	5595469	CABLE ASSEMBLY Ø10 x 10484mm ST	1	C
5	5595055	CABLE ASSEMBLY Ø10 x 12072mm ST	1	F
6	5595567	CABLE ASSEMBLY Ø10 x 5050mm ST	1	C
7	5595568	CABLE ASSEMBLY Ø10 x 6670mm ST	1	B
8	5595561	CABLE ASSEMBLY Ø10 x 9492mm ST	1	C
9	5595569	CABLE ASSEMBLY Ø10 x 11104mm ST	1	B
10	5570871	HYDRAULIC HOSE ASSEMBLY Ø6.4 x 4166mm	1	B
11	5570022	HYDRAULIC HOSE ASSEMBLY Ø6.4 x 3380mm	1	G
12	5520032	WIRE, AWG 14, CAROL, 2C	5800*mm	-
13	5570795	1/4" POLY-FLO TUBING	40000*mm	-
14	5216139	FLEX TUBE KIT, UP TO 2000mm	1	A
15	5216141	FLEX TUBE KIT, UP TO 3000mm	1	A
16	5700381	HD-973 FLEX TUBE BRACKET PLATE	1	A
17	5590175	PUSH BUTTON AIR VALVE	1	B
18	5715003	POWER UNIT VIBRATION DAMPENER	1	B
19	5745014	HD-7/7500/9, PL-12000 DRIVE UP RAMP PIN	8	B
20	5700365	DOUBLE FLEX TUBE ANGLE	1	A
21	5700072	WHEEL CHOCK	4	B
22	5530337	AB 3/4" x 6.3"	16	-
23	5601272	HD-973 POST TOP PLATE WELDMENT	4	D
24	5716630	HD-7/7500/9 CROSSTUBE COVER, PLASTIC	8	A
25	5716005	CROSSTUBE POLYETHYLENE SLIDE BLOCK	32	M
26	5700031	ZERO ANGLE MOUNTING BRACKET	1	C
27	5601305	HD-973 POST BASE PLATE TOP CROSSTUBE LANDING PAD WELDMENT	4	A
28	5900076	HD-973 INSTALLATION AND OPERATION MANUAL	1	-
29	5210243	HD-973 CE PARTS BAG	1	A
30	5930195	ANTI-SLIP TAPE, 6" x 24ft	2	-

WHERE USED
HD-973P

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5260242

DO NOT SCALE DRAWING

NAME	DATE
DRAWN TM	07/10/2018
CHECKED	

BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

TITLE:
HD-973P PARTS BOX

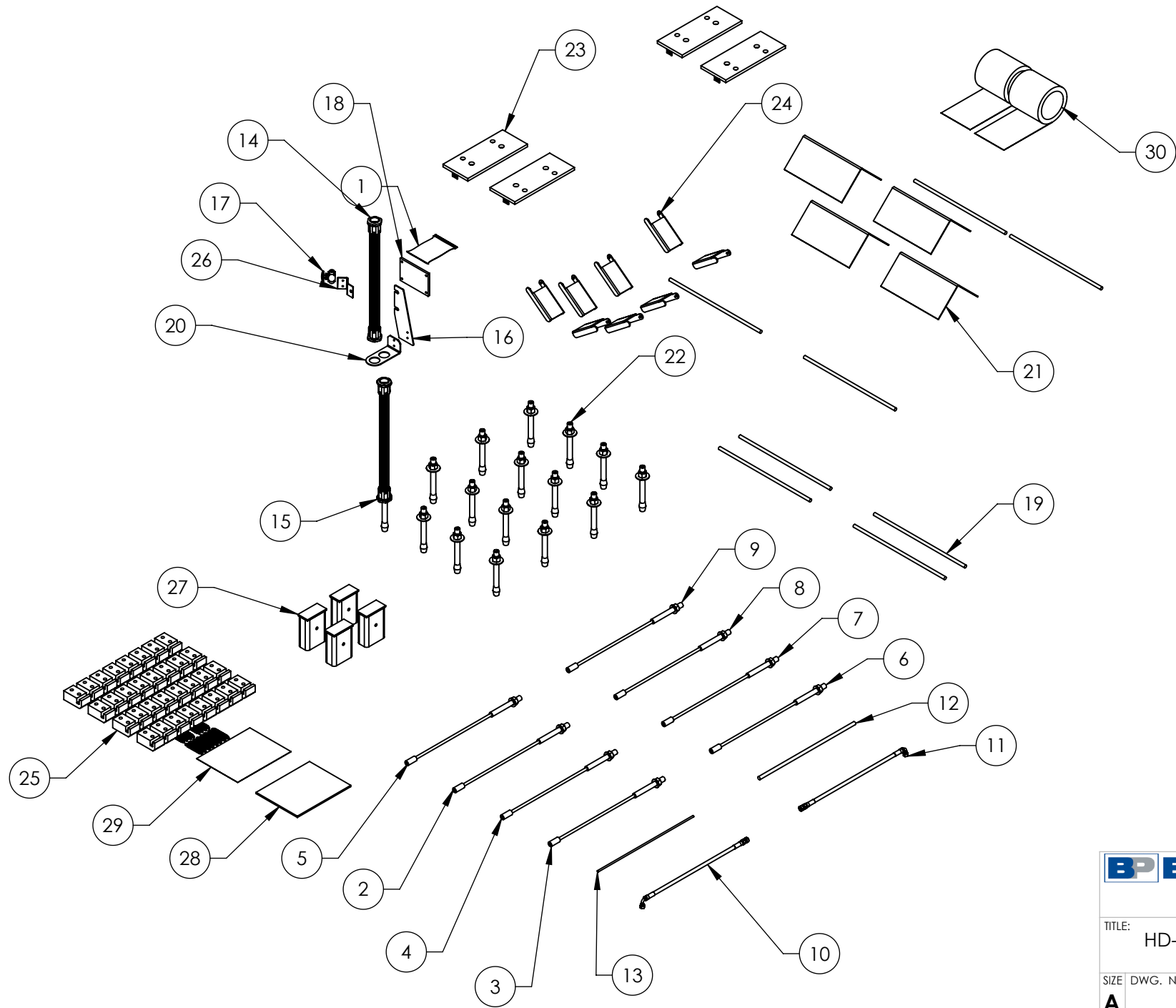


SIZE DWG. NO.	REV
A 5250081	J

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SCALE: 1:30

SHEET 1 OF 2



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

TITLE: HD-973P PARTS BOX

SIZE	DWG. NO.	REV
A	5250081	J

SCALE: 1:20 SHEET 2 OF 2



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	REPLACED 5550493 WITH 5550070	05/30/2019	TM	01084
D	REPLACED 5550070 WITH (1) 5550106, ADDED 5580012	11/22/2019	CA	01120
E	REMOVED 5550025	07/14/2021	TM	01316

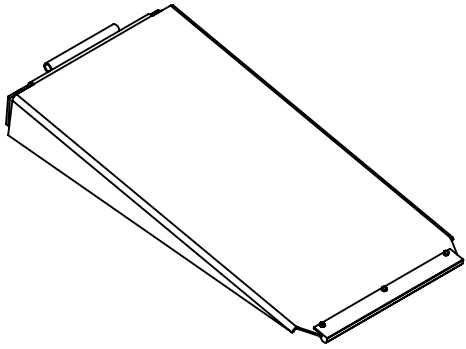
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5505031	ROTOR CLIP Ø12mm SS	16	-
2	5530756	HHB M6 x 1.0 x 25mm	8	-
3	5535357	NUT M6 x 1.0 NL	8	-
4	5535001	NUT M8 x 1.25 NL	4	-
5	5545340	WASHER M8 x24 FLAT	4	-
6	5530010	HHB M8 x 1.25 x 25mm ZPL	4	-
7	5530009	HHB M12 x 1.75 x 90 CL8.8	16	-
8	5545201	WASHER, M12 SPRING LOCK	16	-
9	5545347	WASHER M12 x 24mm FLAT, CL 8.8	48	-
10	5535354	NUT, M12 x1.75	48	-
11	5550395	FTG TEE -04 COMP x -04 COMP x -04 COMP	8	-
12	5550089	FTG ELB -04 COMP x -06 NPT	3	-
13	5550106	FTG ELB -04JIC x 3/8" NPT	2	-
14	5545009	WASHER, M4 x 9mm FLAT	2	-
15	5530008	SHCS M4 x 0.7 x 12 BOC	2	-
16	5535010	NUT M4 X 0.7 NL	2	-
17	5545535	C WASHER SHIM FOR LIFTS	19	-
18	5530076	HHB M12 x 1.75 x 35mm	32	-
19	5545024	WASHER, M3 x 9mm FLAT	2	-
20	5530043	SHCS M3 x 0.5 x 30	2	-
21	5535020	NUT M3 x 0.5, NL CL8	2	-
22	5550486	FTG NPL -02 NPT x -04 F NPT	1	-
23	5550087	FTG ELB -04 COMP x -02 NPT	1	-
24	5530217	HHB M10 x 1.5 x 58	2	-
25	5535013	NUT M10 x 1.5 NL	2	-
26	5545200	WASHER M10 x Ø18 SL	2	-
27	5545341	WASHER M10 x Ø20 FLAT	2	-
28	5530115	BHS 6-32 x 1.25	2	-
29	5535190	HN 6-32	2	-
30	5525112	MICRO SWITCH COVER-5PA2	1	-
31	5525093	SPDT MICRO SWITCH w ROLLER;25A@125VAC	1	-
32	5520001	RUBBER GROMMET, 3/4 I.D.	2	-
33	5550064	16mm CUSHIONED LOOP STRAP	4	-
34	5530749	HSDS M6.3 x 1.8 x 20	4	-
35	5550068	FTG -04 NPT x -04 NPT x -04 NPT DIR VLV	1	-
36	5550147	FTG NPL -04 JIC x -04 NPT	2	-
37	5550093	FTG NPL -06 ORB x -04 NPT	1	-
38	5580012	LIQUID PTFE THREAD SEALANT 50ml	1	-

WHERE USED
HD-973P
HD-973P-G

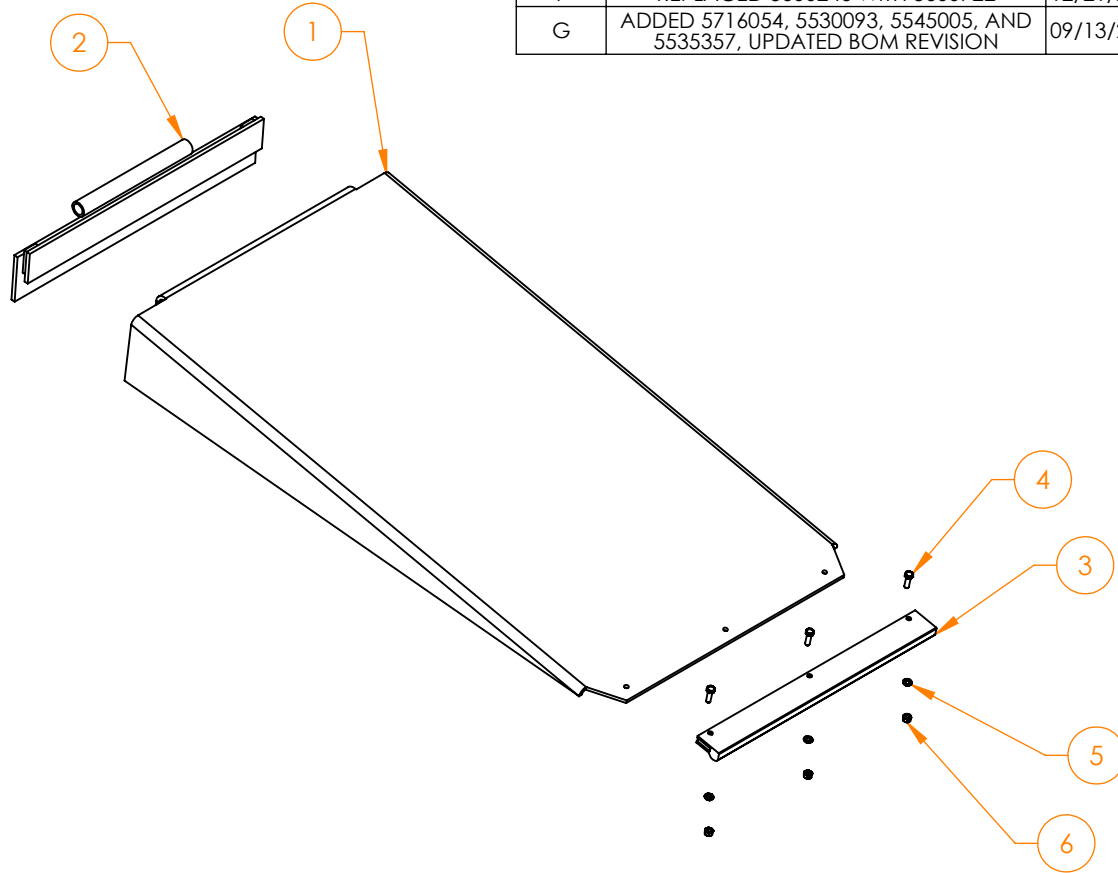
NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

NEXT ASSEMBLY
5250081
5250336

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN	TM	07/11/2018	
CHECKED	OR	07/26/2021	
DIMENSIONS ARE IN MM	THIRD ANGLE PROJECTION		TITLE:
			HD-973P PARTS BAG
	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SIZE DWG. NO.
			A 5174027
			REV
SCALE: 1:15			E
			SHEET 1 OF 1



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
E	REMOVED 5535354, 5545201, 5545027, AND 5530035, UPDATED BOM REVISION	11/23/2012	TM	00549
F	REPLACED 5600246 WITH 5600722	12/21/2012	TM	00573
G	ADDED 5716054, 5530093, 5545005, AND 5535357, UPDATED BOM REVISION	09/13/2019	TS	01120

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600668	HD-9 ALUMINUM DRIVE UP 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 x 20	3	--
5	5545005	M6 FLAT WASHER	3	--
6	5535357	NUT M6 x 1.0 NL	3	--

WHERE USED
HD-9 SERIES
HD-973P SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

1. ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
ACCESSORY
5245059
5245068

DO NOT SCALE DRAWING

NAME	DATE
DRAWN TM	07/27/2010
CHECKED CA	02/07/2020



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

TITLE: HD-9 ALUMINUM
APPROACH RAMP
ASSEMBLY



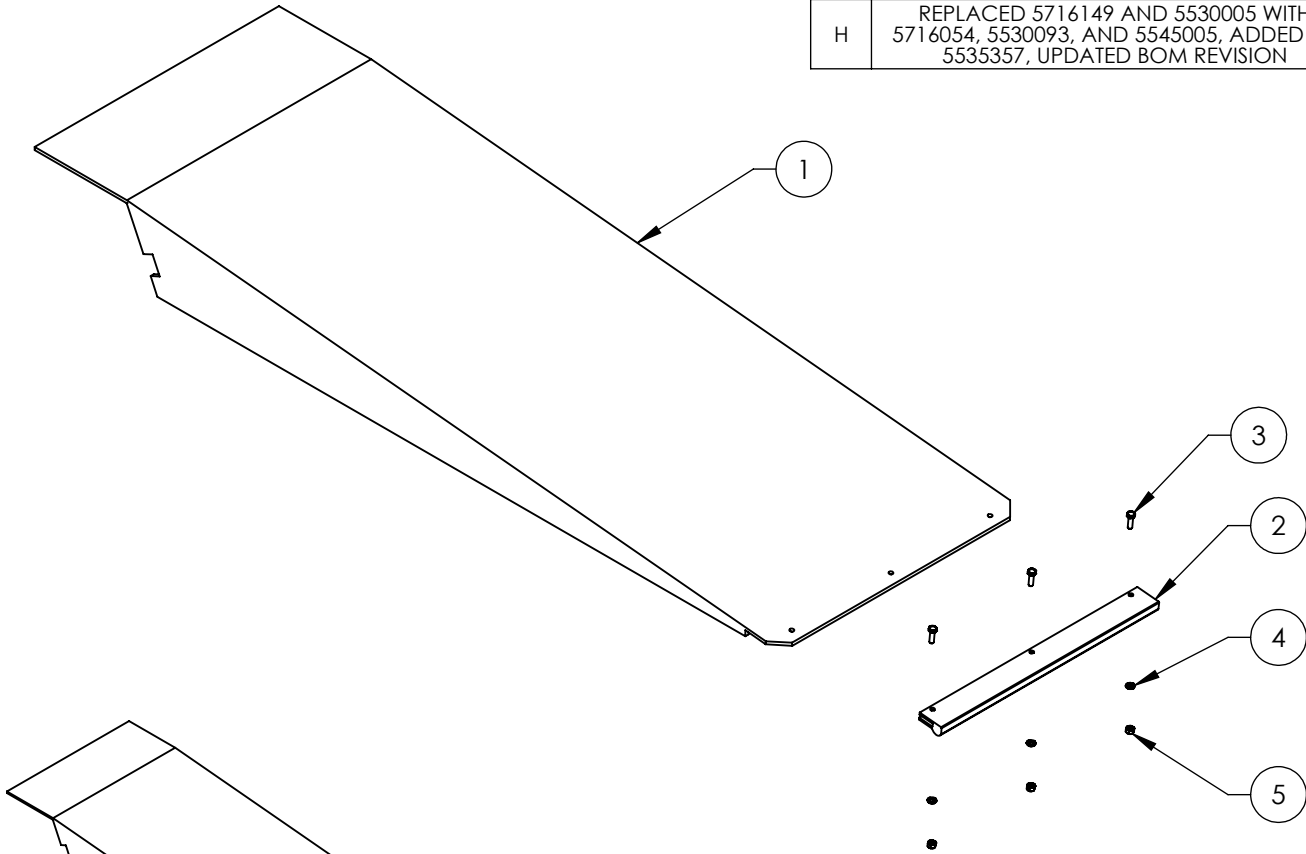
SIZE	DWG. NO.	REV
A	5174220	G

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SCALE: 1:10

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
F F-001	UPDATED BOM REVISION UPDATED NEXT ASSEMBLY	06/01/2018 08/23/2018	CA TM	00951 00972
G	UPDATED BOM REVISION AND TITLE TO REFLECT WHERE USED	05/09/2019	TM	01084
H	REPLACED 5716149 AND 5530005 WITH 5716054, 5530093, AND 5545005, ADDED (1) 5535357, UPDATED BOM REVISION	09/13/2019	TS	01120



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-7 SERIES
HD-9
HD-9AE
HD-9ST
HD-9STX
HD-9TG
HD-9XL
HD-9XW
HD-973 SERIES

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600209	HD-7/9 EXTENDED 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	-

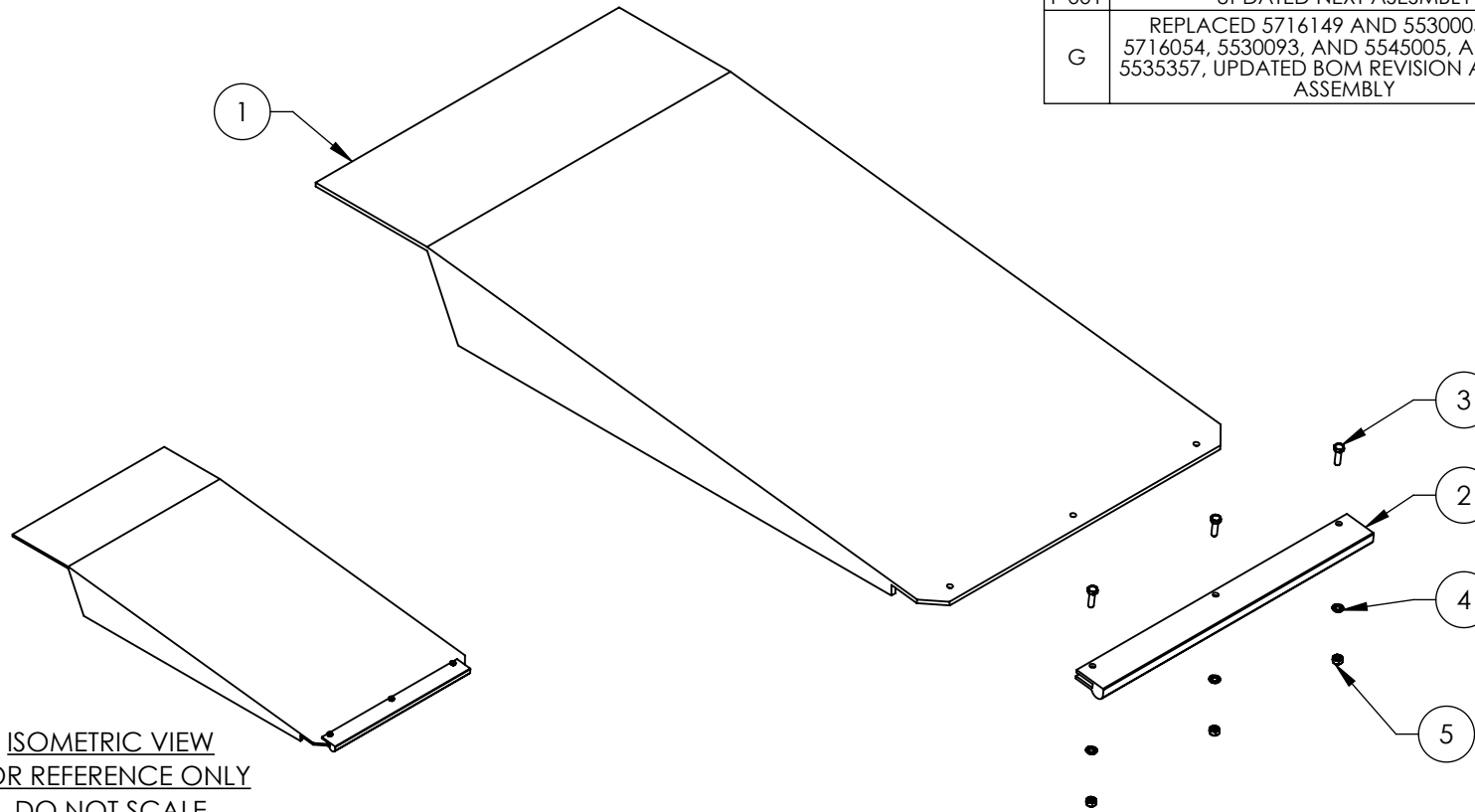
NEXT ASSEMBLY
5210055
5245059
5245068
5245144
5245163

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	AC 06/16/2008	
	CHECKED	OR 04/20/2020	
	THIRD ANGLE PROJECTION		TITLE:
			HD-7/9 EXTENDED DRIVE UP RAMP ASSEMBLY
<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SIZE DWG. NO.	REV
		A 5215131	H
SCALE: 1:10			SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.

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

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

NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600891	HD-7/9/7500 DRIVE UP RAMP WELDMNT	1	E
2	5716054	APPROACH RAMP EDGE GUARD	1	A
3	5530093	HHB M6 x 1.0 x 20mm	3	A
4	5545005	WASHER, M6 x 12mm FLAT	3	A
5	5535357	NUT M6 x 1.0, NL CL8	3	-

NEXT ASSEMBLY		
5245059	5245380	5245392
5245068	5245381	5245393
5245144	5245382	5245395
5245163	5245383	5245396
5245166	5245384	
5245243	5245385	
5245244	5245386	
5245256	5245388	
5245257	5245391	

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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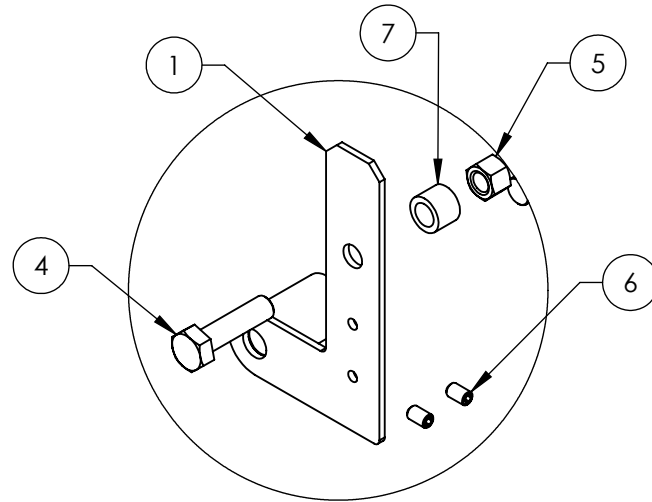
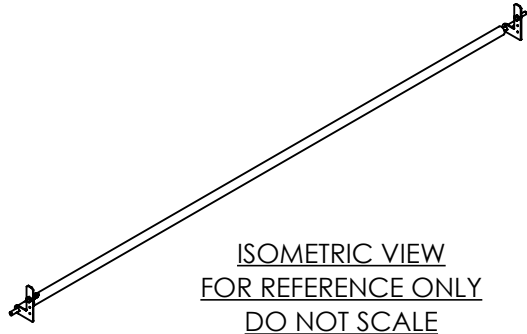
BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

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

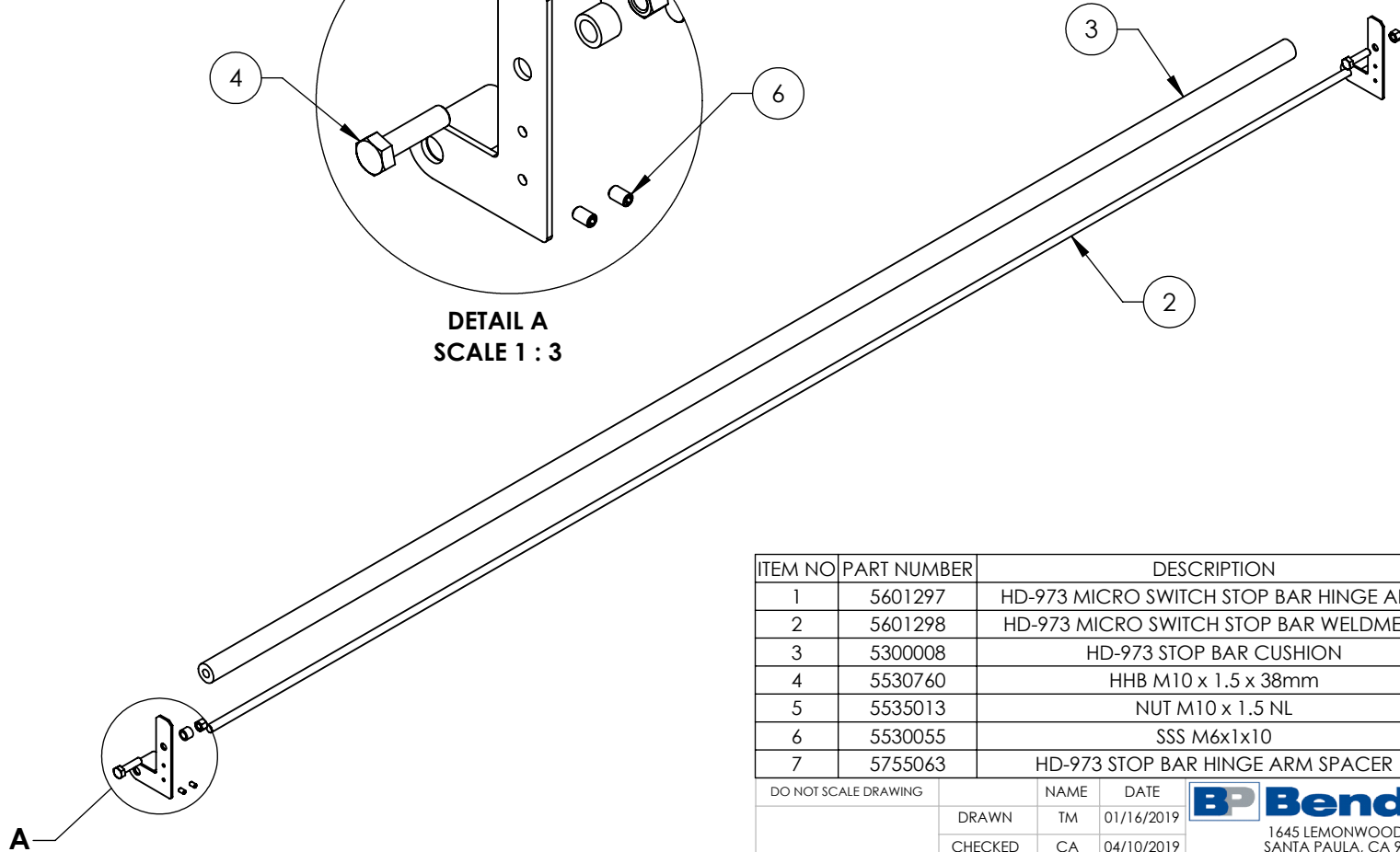
SIZE DWG. NO. REV
A 5215193 G

SCALE: 1:8 SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE	01/17/2019	TM	01039



DETAIL A
SCALE 1 : 3



WHERE USED
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601297	HD-973 MICRO SWITCH STOP BAR HINGE ARM	1	A
2	5601298	HD-973 MICRO SWITCH STOP BAR WELDMENT	1	A
3	5300008	HD-973 STOP BAR CUSHION	1	A
4	5530760	HHB M10 x 1.5 x 38mm	2	--
5	5535013	NUT M10 x 1.5 NL	2	--
6	5530055	SSS M6x1x10	2	--
7	5755063	HD-973 STOP BAR HINGE ARM SPACER	1	A

DO NOT SCALE DRAWING

NAME	DATE
DRAWN TM	01/16/2019
CHECKED CA	04/10/2019



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION



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TITLE: HD-973 MICRO SWITCH
STOP BAR ASSEMBLY

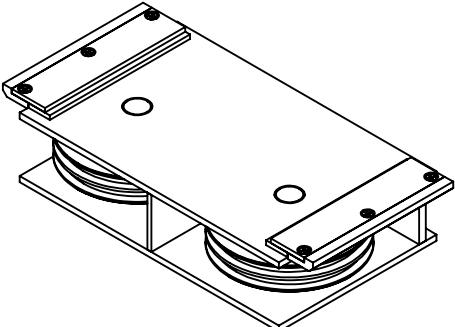
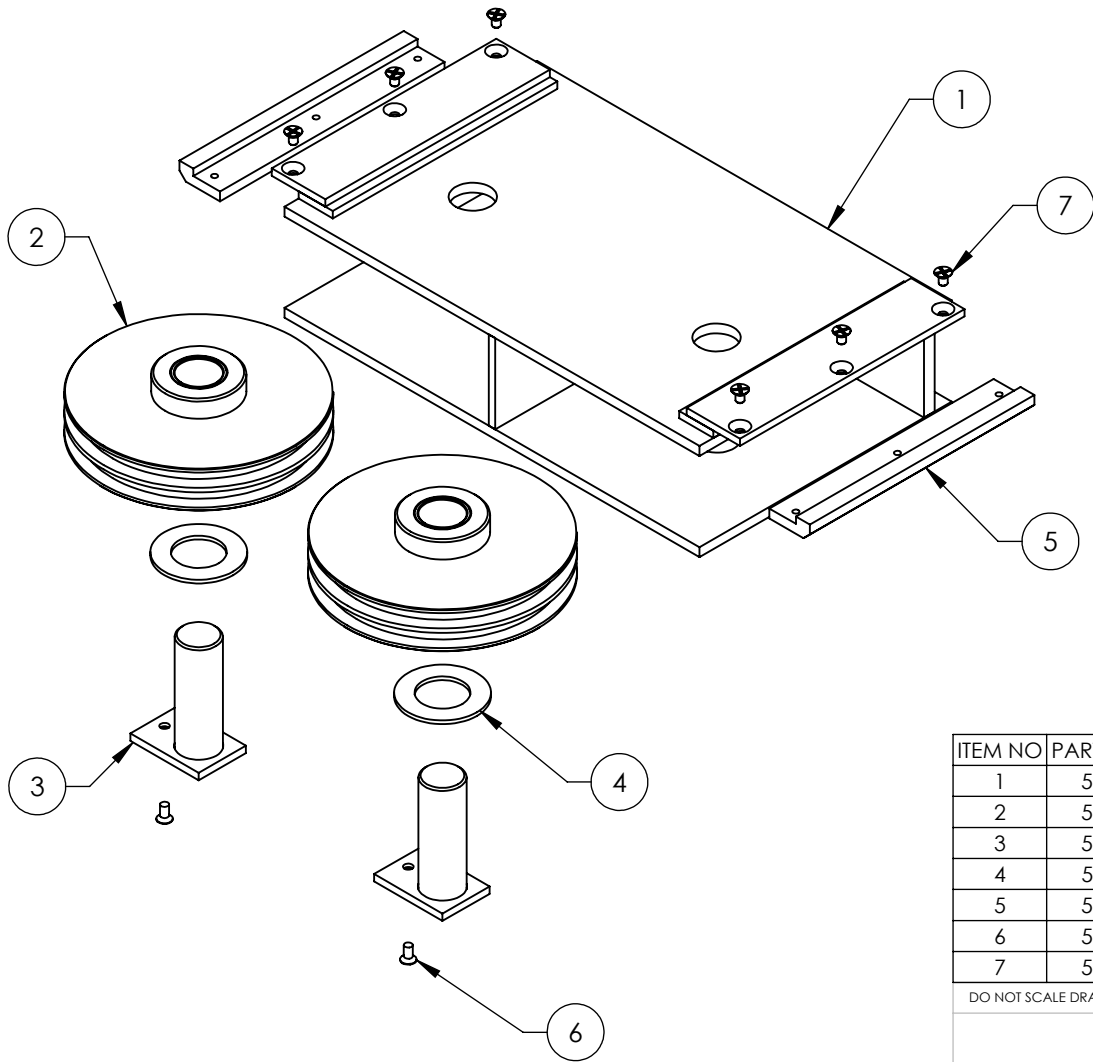
SIZE	DWG. NO.	REV
A	5215818	A

SCALE: 1:10

SHEET 1 OF 1

NEXT ASSEMBLY
5260242
5260656

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
B	UPDATED BOM REVISION AND NEXT ASSEMBLY	07/26/2019	TS	01108
C	REPLACED 5601302 WITH 5600199	11/06/2019	TM	01120
D	UPDATED BOM REVISION	07/14/2021	TM	01316



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601301	HD SERIES PULL BOX WELDMENT	1	B
2	5215185	HD-7/7500/973 TWIN SHEAVE ASSEMBLY	2	C
3	5600199	HD-7P/973 PULLBOX PIN WELDMENT	2	B
4	5716160	HD-7/973 PULL BOX SHEAVE WEAR RING	2	A
5	5716047	HD PULLBOX POLYETHYLENE SLIDE BLOCK	2	A
6	5530400	FHPS M6 x 1.0 x 12	2	--
7	5530058	FHPS M6 x 1.0 x 10	6	--

WHERE USED
HD-973 SERIES

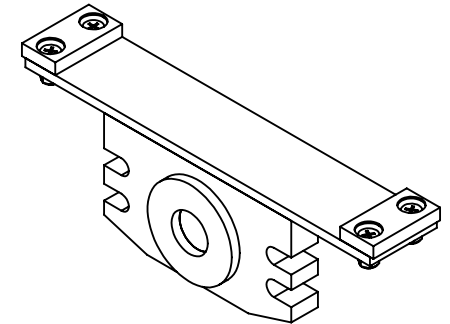
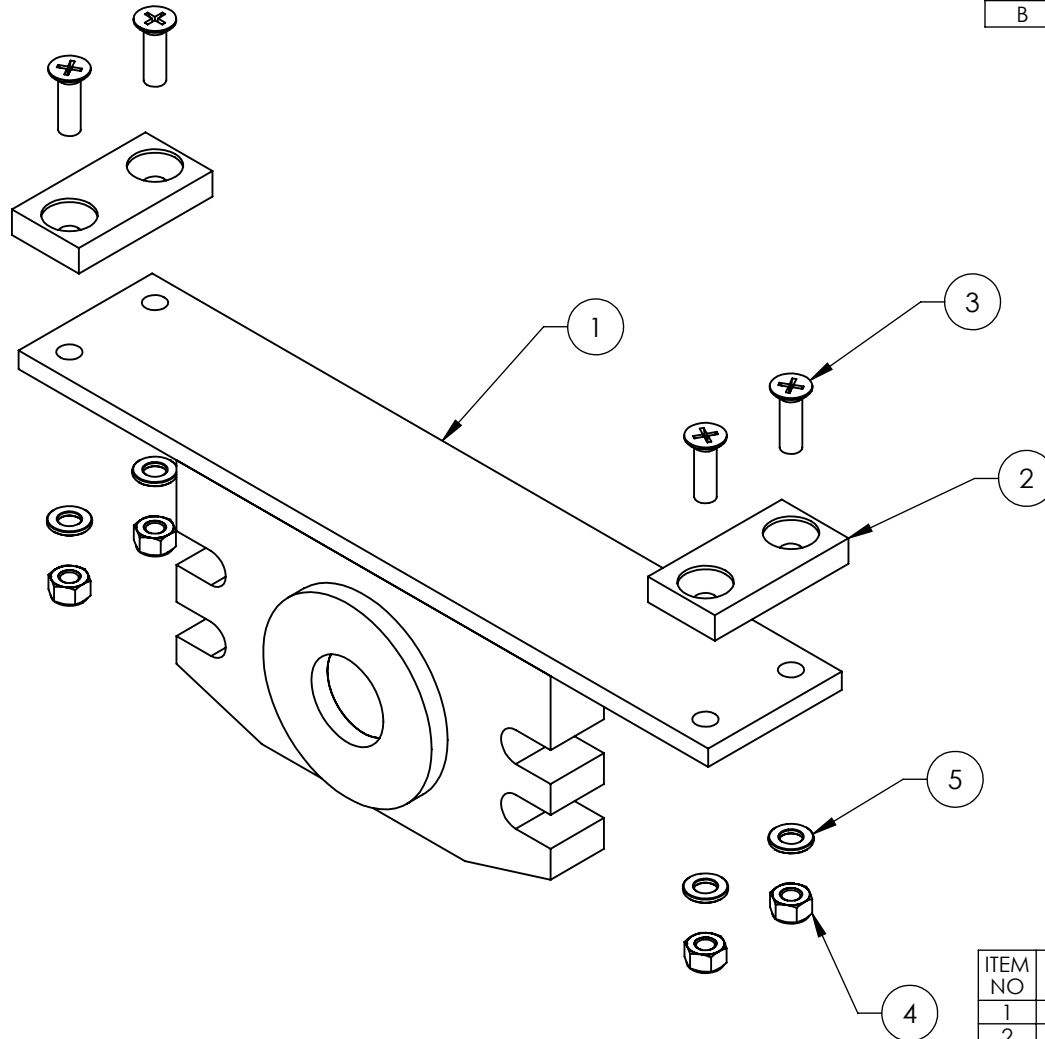
NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5215817
5215851

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	TM 01/22/2019	
	CHECKED	OR 07/26/2021	
	THIRD ANGLE PROJECTION		TITLE: HD-973 PULL BOX ASSEMBLY
			SIZE DWG. NO. A 5215819
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SCALE: 1:5			SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215820	04/07/2020	TM	01120
B	UPDATED BOM REVISION	09/09/2020	OR	01207



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601466	HD-973 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 x 20	4	-
4	5535357	NUT M6 x 1.0 NL	4	-
5	5545005	M6 FLAT WASHER	4	-

WHERE USED
HD-973 SERIES

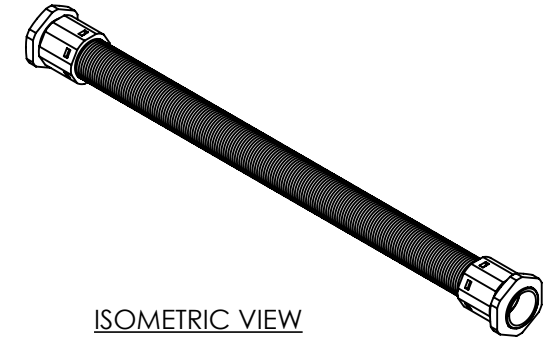
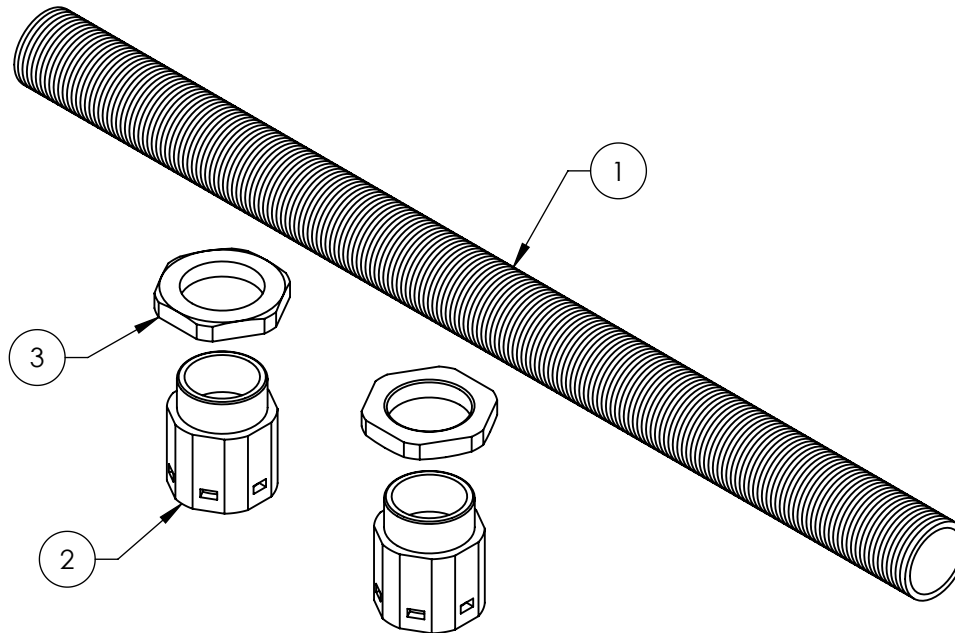
NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5215787
5215850

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	TM 04/07/2020	
	CHECKED		
DIMENSIONS ARE IN MM	THIRD ANGLE PROJECTION		TITLE: HD-973 CYLINDER FLANGE ARM ASSEMBLY
			SIZE DWG. NO. REV
	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		A 5215910 B
SCALE: 1:2			SHEET 1 OF 1

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

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

THIRD ANGLE PROJECTION

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BP BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: FLEX TUBE KIT, UP TO 2000mm

SIZE DWG. NO. **A** 5216139

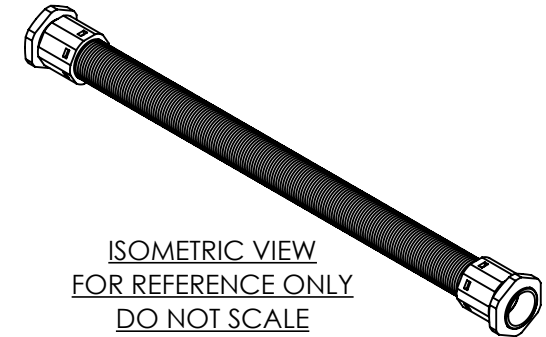
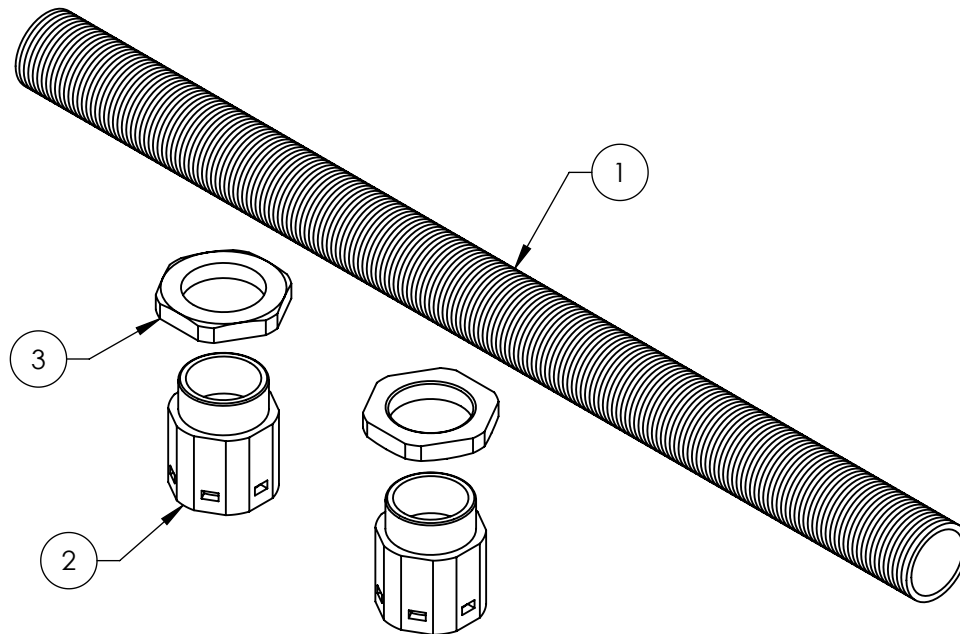
SCALE: 1:3

SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.

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

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5570055 AND 5570200	05/06/2022	TM	01414 PRE A



WHERE USED
HD-7500PBX
HD-7MZ SERIES
HD-7PX SERIES
HD-7PLT
HD-973 SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

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

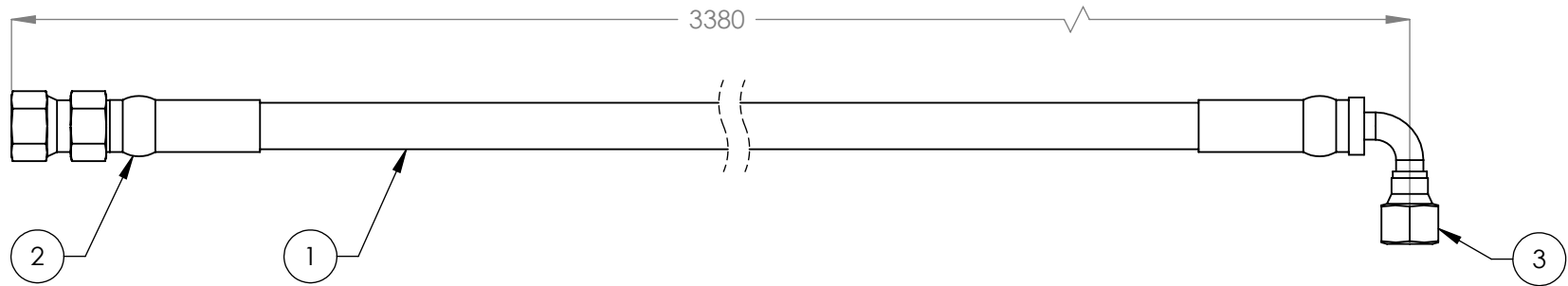
NEXT ASSEMBLY	
5250081	5250337
5250086	5250341
5250161	5250342
5250166	5250352
5250278	5250353
5250336	5250361

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5570053	PE FLEX TUBE Ø34.5xØ29	3100mm*	--
2	5555555	WQG1-M36/AD34.5 CONNECTOR	2	--
3	5535050	PLASTIC NUT M36 x 2	2	--

DO NOT SCALE DRAWING		NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
DRAWN	TM	05/06/2022			
CHECKED	OR	05/10/2022			
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE:	
				FLEX TUBE KIT, UP TO 3000mm	
				SIZE DWG. NO.	REV
		A		5216141	A
SCALE: 1:3				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#
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
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

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

THIRD ANGLE PROJECTION

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

TITLE:
HYDRAULIC HOSE ASSEMBLY
Ø6.4 x 3380mm

SIZE	DWG. NO.	REV
A	5570022	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:

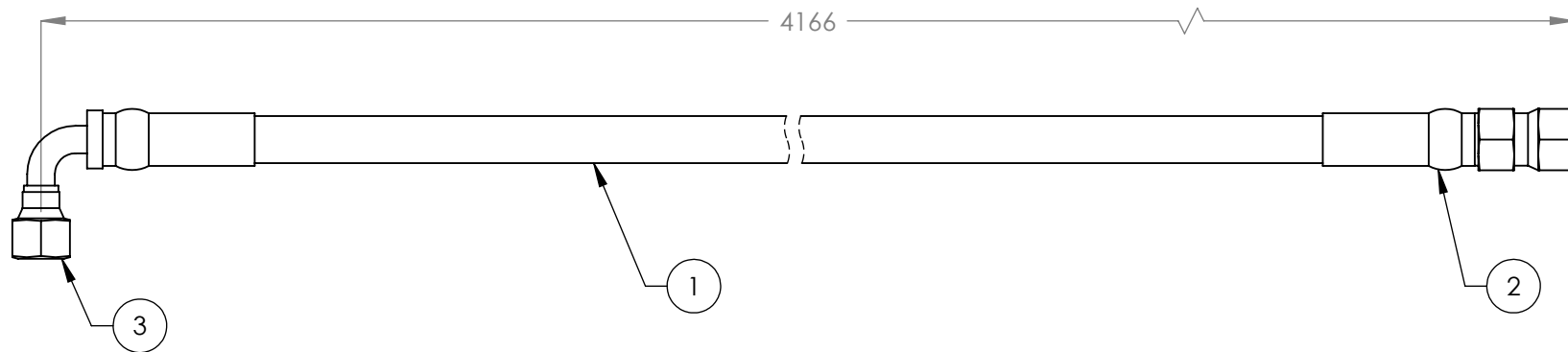
Xin Yurong
 Shandong Ningjin High Energy Hose Co., Ltd.
 Tel: +86 534-5421821
 No. 7, Taishan Rd., Industrial Park, Ningjin County, Shandong, China

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 A-001	DERIVED FROM 5570040, PRODUCTION RELEASE UPDATED NEXT ASSEMBLIES	07/16/2009 05/20/2013	AC TM	00249 00593
B	REPLACED 5570110 WITH 5570129, UPDATED NEXT ASSEMBLIES	09/23/2016	TM	00782



WHERE USED
HD-973P
HD-973P-G
HDS-14LSX
HDS-14LSXE
HDSO-14AX
HDSO-14P

NOTE: UNLESS OTHERWISE SPECIFIED.

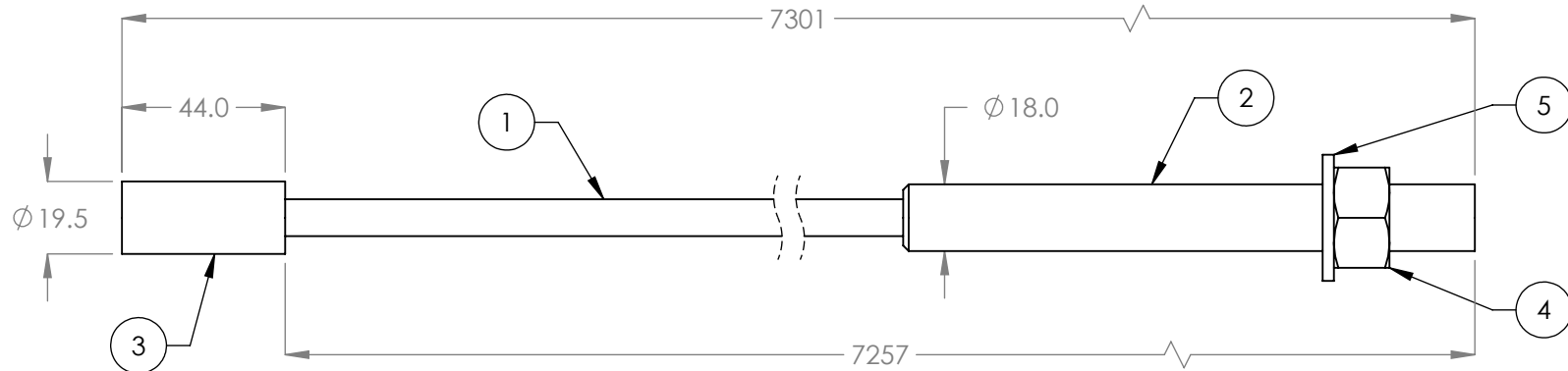
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- (*)ITEM 1 QTY FOR REFERENCE ONLY

ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5570129	Ø6.4 ID HYDRAULIC HOSE	4088mm*	-
2	5550325	FTG NPL Ø1/4 CRIMP x -04 JIC	1	-
3	5550345	FTG ELB Ø1/4 CRIMP x -04 JIC	1	-

NEXT ASSEMBLY
5250058
5250059
5250081
5250194
5250195
5250336

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
	DRAWN	AC		07/15/2009
	CHECKED	TM		10/04/2014
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±1.0 0.00 = ±0.25 0.000 = ±0.13		THIRD ANGLE PROJECTION		
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.			TITLE: HYDRAULIC HOSE ASSEMBLY Ø6.4 x 4166mm	
SIZE	DWG. NO.	REV		
A	5570871	B		
SCALE: 1:2			SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
D	UPDATED TITLE TO REFLECT WHERE USED	08/21/2012	TM	00541
D-001	UPDATED NEXT ASSEMBLIES	11/21/2012	TM	00562
D-002	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
E	UPDATED BOM REVISION	12/21/2017	TM	00909
E-001	UPDATED NEXT ASSEMBLY	04/19/2018	CA	00941
E-002	UPDATED NEXT ASSEMBLY	08/21/2018	TM	00972
F	ADDED 5535358 AND 5545342	07/10/2020	TM	01174



WHERE USED
HD-7PXW
HD-7PXWS
HD-7MZ
HD-7MZS
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

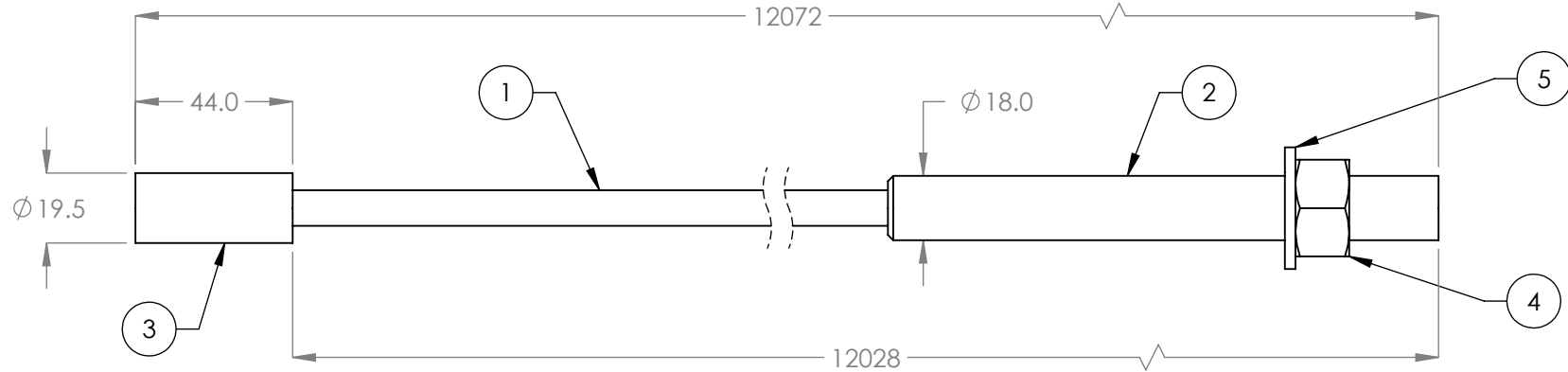
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	7207mm*	-
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	-

NEXT ASSEMBLY
5250081
5250166
5250336
5250341
5250342
5250361

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	AC 12/15/2008	
	CHECKED	OR 08/28/2020	
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			TITLE: CABLE ASSEMBLY Ø10 x 7301mm ST
THIRD ANGLE PROJECTION 			SIZE DWG. NO. REV A 5595053 F
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

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
D	UPDATED TITLE TO REFLECT WHERE USED	08/21/2012	TM	00541
D-001	UPDATED NEXT ASSEMBLIES	11/21/2012	TM	00562
D-002	UPDATED NEXT ASSEMBLIES	05/20/2013	TM	00593
E	UPDATED BOM REVISION	12/21/2017	TM	00909
E-001	UPDATED NEXT ASSEMBLY	04/19/2018	CA	00941
E-002	UPDATED NEXT ASSEMBLY	08/21/2018	TM	00972
F	ADDED 5535358 AND 5545342	07/10/2020	TM	01174



WHERE USED
HD-7PXW
HD-7PXWS
HD-7MZ
HD-7MZS
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

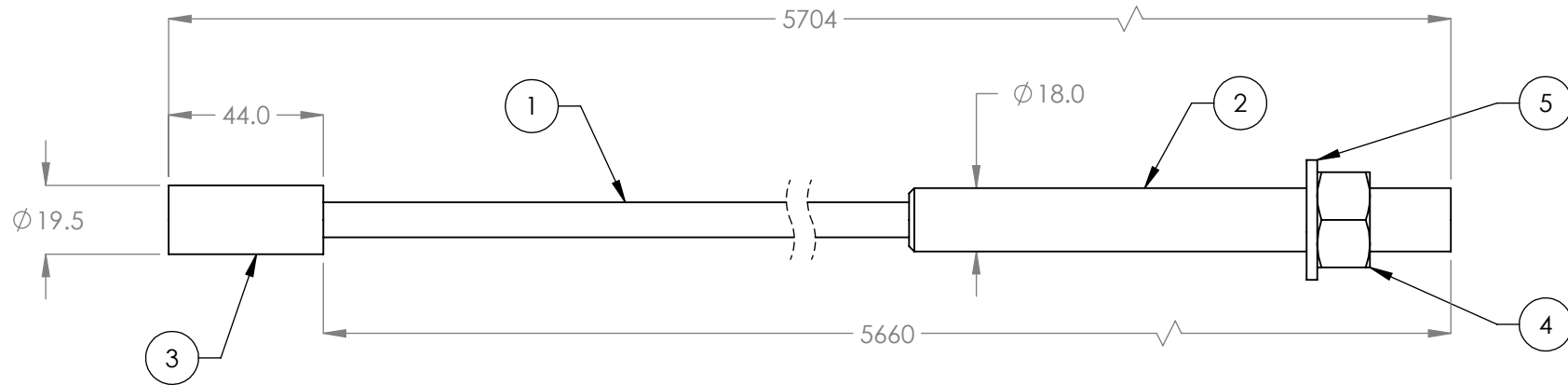
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	11978mm*	-
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	A
5	5545342	WASHER M18 FLAT	1	A

NEXT ASSEMBLY
5250081
5250166
5250336
5250341
5250342
5250361

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	AC 12/15/2008	
	CHECKED	OR 08/28/2020	
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			TITLE: CABLE ASSEMBLY Ø10 x 12072mm ST
THIRD ANGLE PROJECTION 			SIZE DWG. NO. REV A 5595055 F
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

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595052	11/21/2012	TM	00562
A-001	UPDATED NEXT ASSEMBLY	05/20/2013	TM	00593
A-002	UPDATED NEXT ASSEMBLY	10/17/2013	TM	00630
A-003	UPDATED NEXT ASSEMBLY	09/16/2014	TM	00664
B	UPDATED BOM REVISION	12/21/2017	TM	00909
B-001	UPDATED NEXT ASSEMBLY	04/19/2018	CA	00941
B-002	UPDATED NEXT ASSEMBLY	08/21/2018	TM	00972
C	ADDED 5535358 AND 5545342	07/10/2020	TM	01174



WHERE USED
HD-7PXW
HD-7PXWS
HD-7PSXW
HD-7MZ
HD-7MZS
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

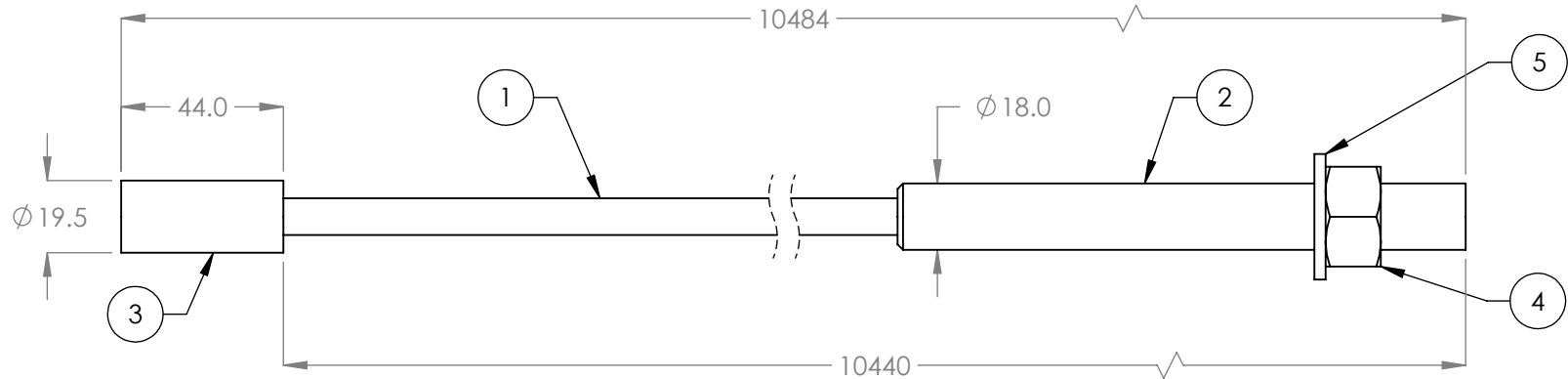
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	5610mm*	-
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	-

NEXT ASSEMBLY
5250081
5250166
5250335
5250336
5250341
5250342
5250361

DO NOT SCALE DRAWING	NAME	DATE	<p>1645 LEMONWOOD DR. SANTA PAULA, CA 93060</p>
	DRAWN	TM 11/21/2012	
	CHECKED	OR 08/28/2020	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5			TITLE: CABLE ASSEMBLY Ø10 x 5704mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED			
THIRD ANGLE PROJECTION 			SIZE DWG. NO.
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.			REV A 5595467 C
SCALE: 1:2			SHEET 1 OF 1

REVISION					
REV	DESCRIPTION	DATE	EDITED BY	ECO#	
A	PRODUCTION RELEASE, DERIVED FROM 5595054	11/21/2012	TM	00562	
A-001	UPDATED NEXT ASSEMBLY	05/20/2013	TM	00593	
A-002	UPDATED NEXT ASSEMBLY	10/17/2013	TM	00630	
A-003	UPDATED NEXT ASSEMBLY	09/16/2014	TM	00664	
B	UPDATED BOM REVISION	12/21/2017	TM	00909	
B-001	UPDATED NEXT ASSEMBLY	04/19/2018	CA	00941	
B-002	UPDATED NEXT ASSEMBLY	08/21/2018	TM	00972	
C	ADDED 5535358 AND 5545342	07/13/2020	TM	10174	



WHERE USED
HD-7MZ
HD-7MZS
HD-7PXW
HD-7PXWS
HD-7PSXW
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

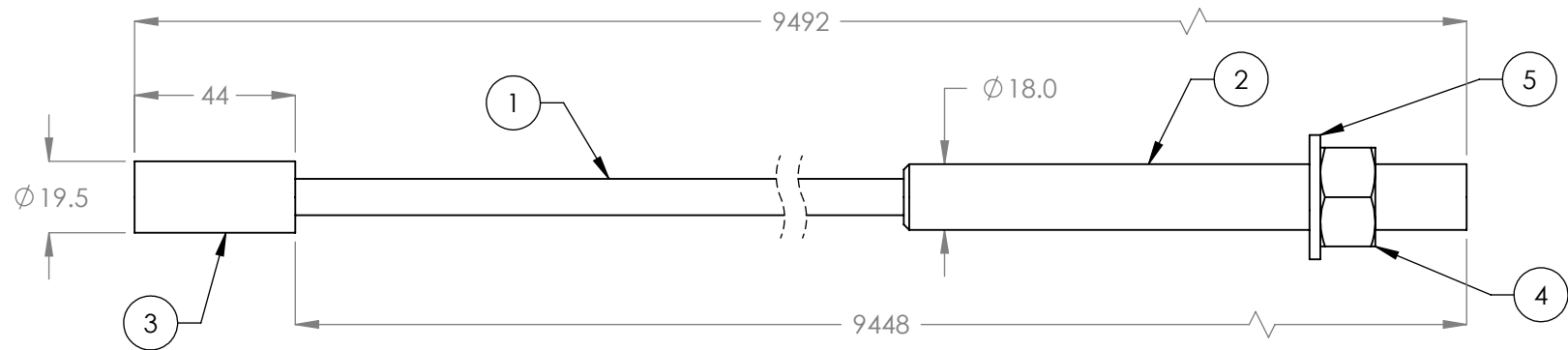
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	10398mm*	-
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	-

NEXT ASSEMBLY
5250081
5250166
5250335
5250336
5250341
5250342
5250361

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	TM 11/21/2012	
	CHECKED	OR 08/28/2020	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5			TITLE: CABLE ASSEMBLY Ø10 x 10484mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED			
THIRD ANGLE PROJECTION 			SIZE DWG. NO.
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.			REV A 5595469 C
SCALE: 1:2			SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595494	08/02/2018	TM	00972
B	WAS 7706 NOW 9492, UPDATED TITLE TO REFLECT LENGTH	01/16/2019	TM	01039
C	ADDED 5535358 AND 5545342	07/17/2020	TM	01174



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	9415mm*	-
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-973P
HD-973P-G

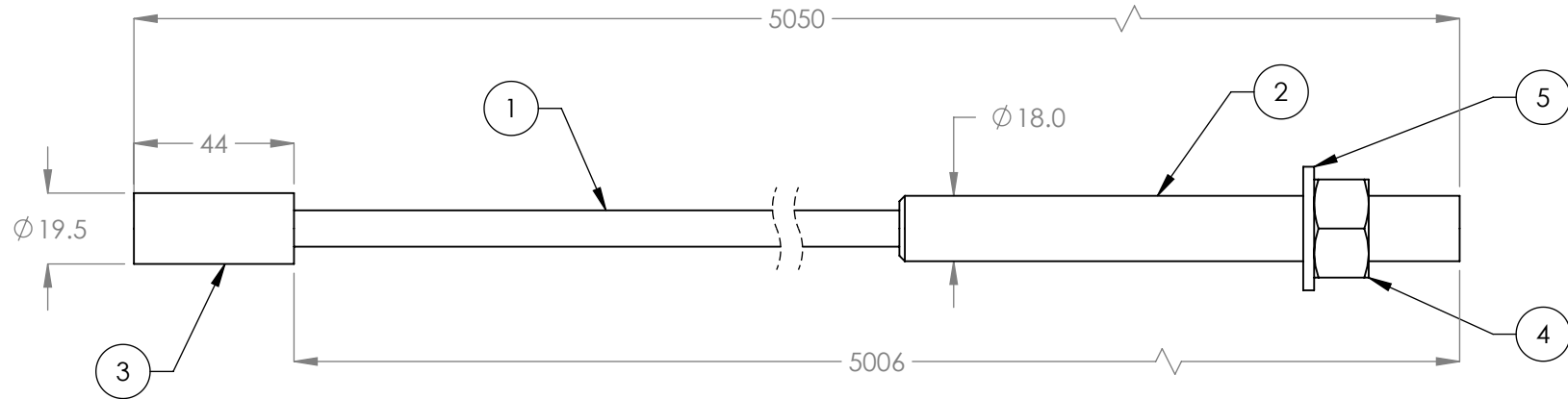
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250081
5250336

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	TM 08/02/2018	
	CHECKED	OR 08/28/2020	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5			TITLE: CABLE ASSEMBLY Ø10 x 9492mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED			
THIRD ANGLE PROJECTION 			SIZE DWG. NO.
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.			REV A 5595561 C
SCALE: 1:2			SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595934	01/16/2019	TM	01039
B	ADDED 5535358 AND 5545342	07/14/2020	TM	01174
C	REPLACED 5746158 WITH 5746022	10/10/2022	CA	01448



WHERE USED
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

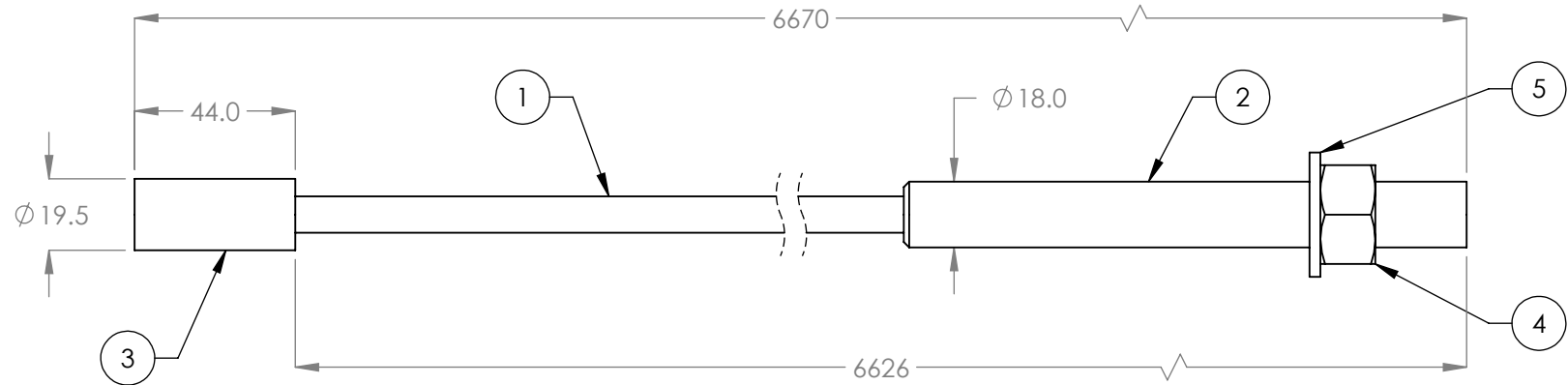
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250081
5250336

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	4973mm*	-
2	5746022	Ø10 THREADED CABLE CONNECTOR	1	-
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	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN	TM	01/16/2019		
CHECKED				
DIMENSIONS ARE IN MM TOLERANCES: 0 = ±1.5 0.0 = ±0.5				TITLE: CABLE ASSEMBLY Ø10 x 5050mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				
THIRD ANGLE PROJECTION 				SIZE DWG. NO.
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.				REV A 5595567 C
SCALE: 1:2				SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595909	01/16/2019	TM	01039
B	ADDED 5535358 AND 5545342	07/17/2020	TM	01174



WHERE USED
HD-973P
HD-973P-G

NOTE: UNLESS OTHERWISE SPECIFIED.

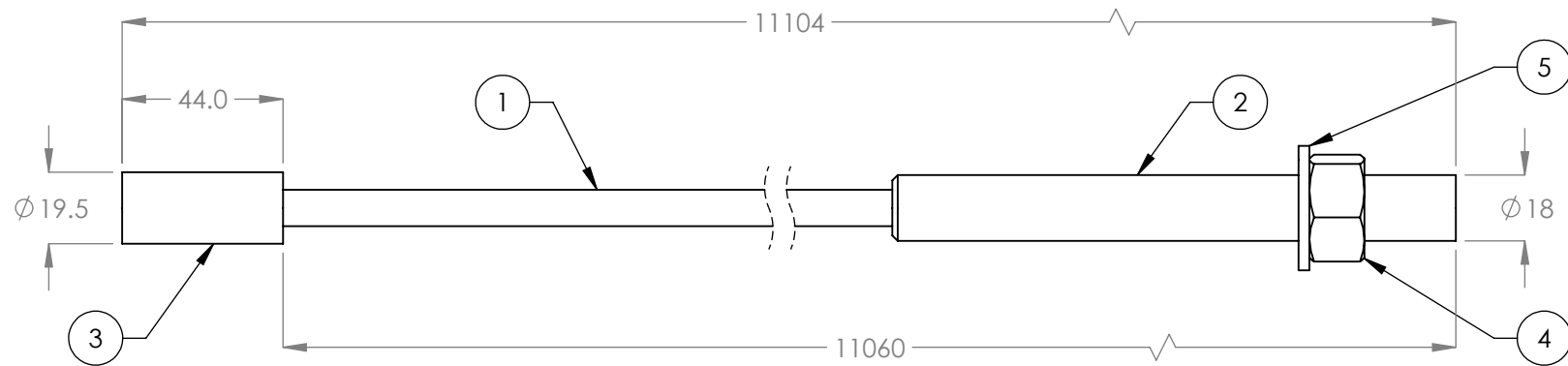
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535358 WITH 5545342 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250081
5250336

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	6593mm*	-
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	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	TM 01/16/2019	
	CHECKED	OR 08/28/2020	
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION	
TOLERANCES:			
0. = ±1.5		TITLE: CABLE ASSEMBLY	
0.0 = ±0.5		Ø10 x 6670mm ST	
SURFACE FINISH 1.6 ISO Ra µm		SIZE DWG. NO.	REV
FOR MACHINED SURFACES		A 5595568	B
UNLESS OTHERWISE SPECIFIED		SCALE: 1:2	
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.		SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5595917	01/16/2019	TM	01039
B	ADDED 5535358 AND 5545342	07/17/2020	TM	01174



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5595011	CABLE, LIFTING Ø10mm	11027mm*	-
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-973P
HD-973P-G

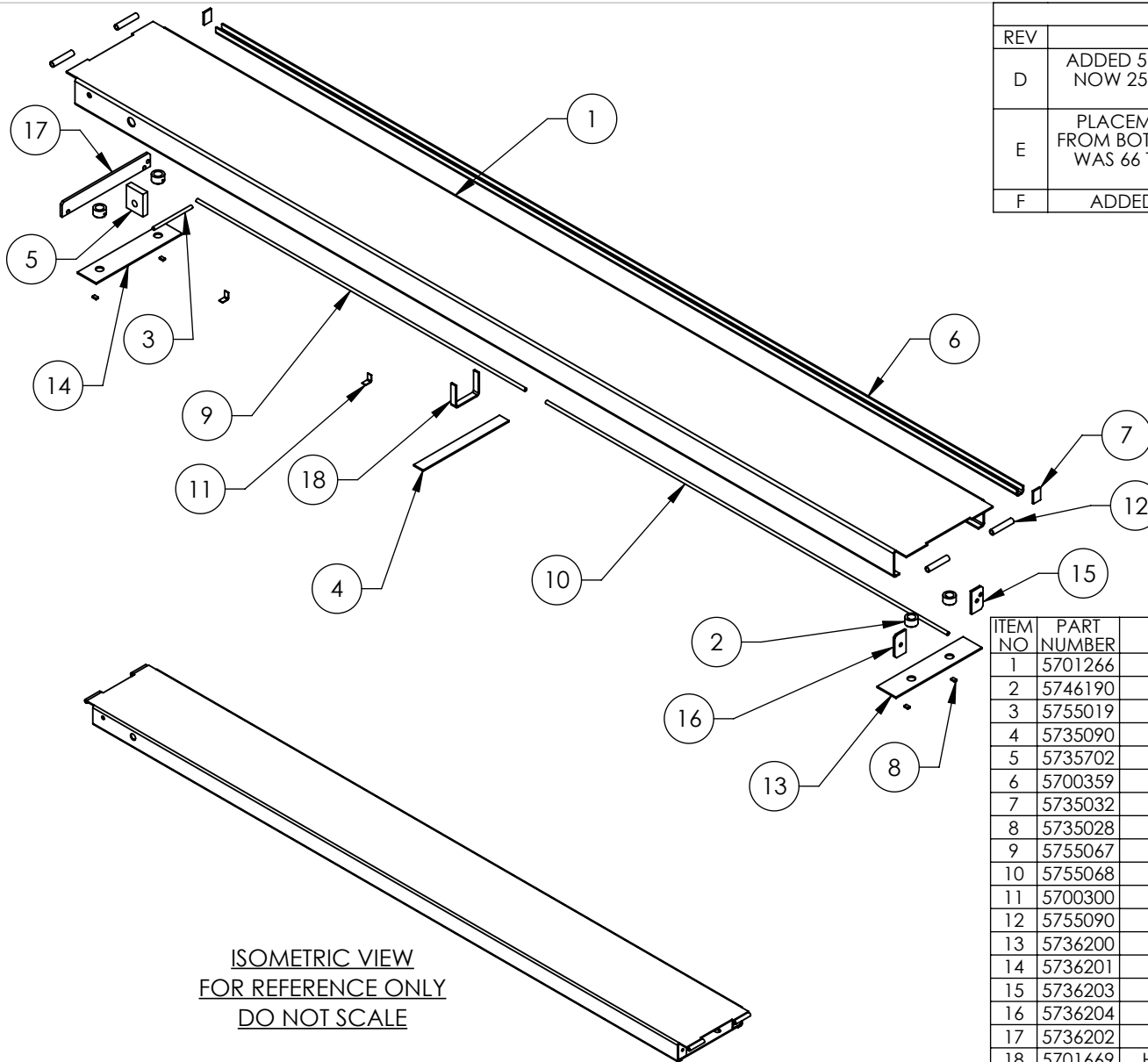
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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
5250081
5250336

DO NOT SCALE DRAWING	NAME	DATE	<p>1645 LEMONWOOD DR. SANTA PAULA, CA 93060</p>
	DRAWN	TM 01/16/2019	
	CHECKED	OR 08/28/2020	
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION 	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		TITLE: CABLE ASSEMBLY Ø10 x 11104mm ST	
		SIZE DWG. NO. A 5595569	REV B
		SCALE: 1:2 SHEET 1 OF 1	

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ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-973P

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
5215787

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
D	ADDED 5701669, MOVED 5735090 WAS 2397 NOW 2570, ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	04/13/2020	TM	01120
E	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 56 MIN TO EDGE, UPDATED BOM REVISIONS	12/09/2021	TM	01367
F	ADDED DISTANCE TO AIR LINE TROUGH	09/23/2022	CA	01448

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701266	HD-973P LOWER POWER SIDE RAMP	1	C
2	5746190	HD-7/7500/9 RAMP SHEAVE BUSHING	4	C
3	5755019	AIR LINE TROUGH Ø13.5 x Ø9.5 x 203	1	B
4	5735090	HD-7/7500/9 RAMP STRAP	1	C
5	5735702	HD-973 CYLINDER CLEVIS PLATE	1	A
6	5700359	HD-973P ROLLING BRIDGE BEAM	1	B
7	5735032	ROLLING JACK RAIL CLOSEOUT	2	C
8	5735028	PIN STOP	4	B
9	5755067	AIR LINE TROUGH Ø13.5 x Ø9.5 x 1750	1	A
10	5755068	AIR LINE TROUGH Ø13.5 x Ø9.5 x 2140	1	A
11	5700300	HYDRAULIC HOSE HOLDER	2	A
12	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
13	5736200	HD-7500/9 RAMP END PLATE, 4-SHEAVE	1	B
14	5736201	HD-7/7500/9 RAMP END PLATE, 2-SHEAVE	1	B
15	5736203	HD-7500/9/973 RIGHT RAMP BOLT PLATE, 4-SHEAVE	1	D
16	5736204	HD-7500/9/973 LEFT RAMP BOLT PLATE, 4-SHEAVE	1	D
17	5736202	HD-7/7500/9 RAMP BOLT PLATE, 2-SHEAVE	1	D
18	5701669	HD-973 LOWER POWER SIDE RAMP CYLINDER BRACKET	1	A

DO NOT SCALE DRAWING

DRAWN	TM	DATE	06/28/2018
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

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BendPak

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

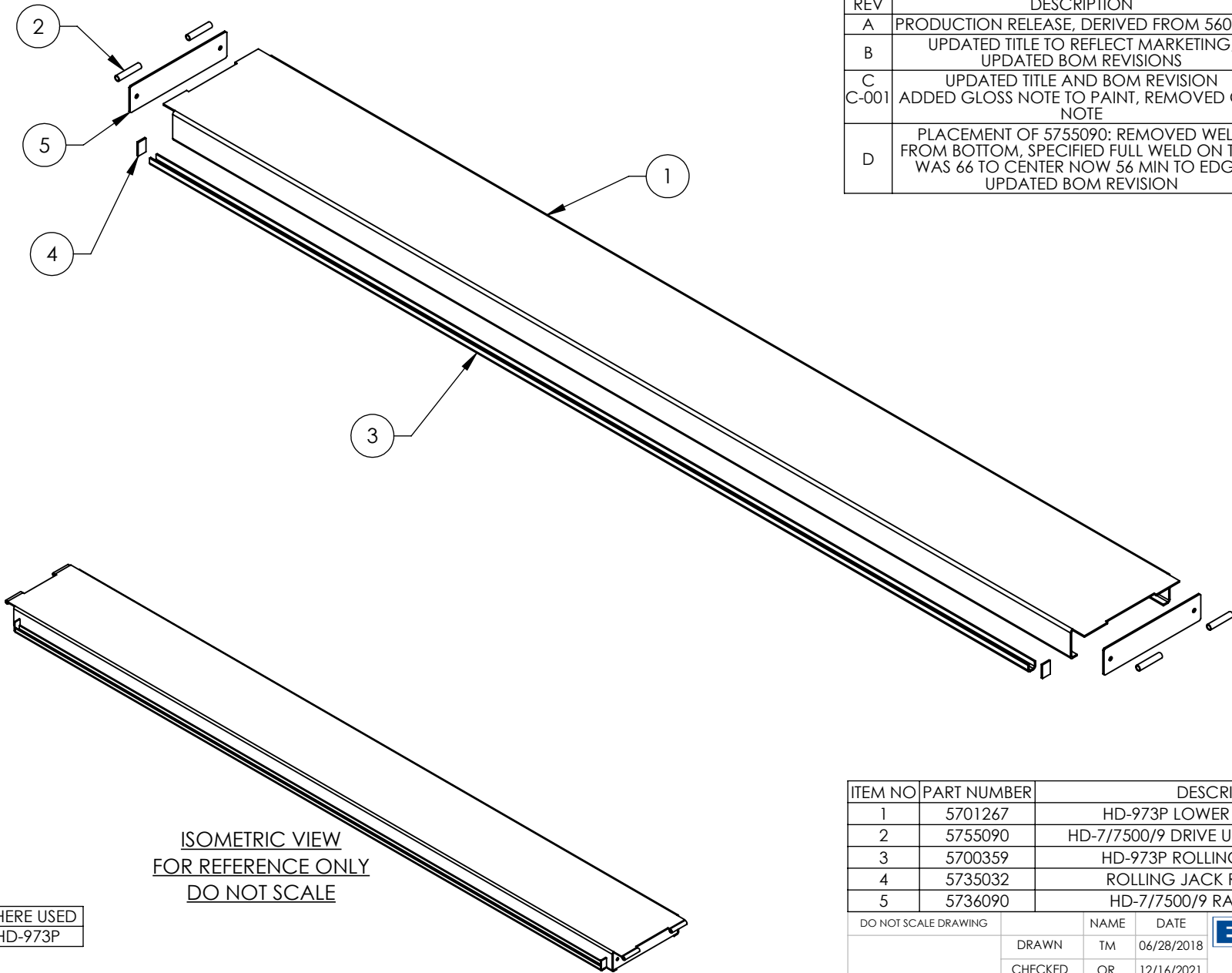
TITLE:
HD-973P LOWER POWER
SIDE RAMP WELDMENT

SIZE DWG. NO. REV

A 5601270 **F**

SCALE: 1:25 SHEET 1 OF 4

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600203	08/02/2018	TM	00972
B	UPDATED TITLE TO REFLECT MARKETING, UPDATED BOM REVISIONS	01/18/2019	TM	01039
C	UPDATED TITLE AND BOM REVISION	05/08/2019	TM	01084
C-001	ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	01/31/2020	CA	01120
D	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 56 MIN TO EDGE, UPDATED BOM REVISION	12/09/2021	TM	01367



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-973P

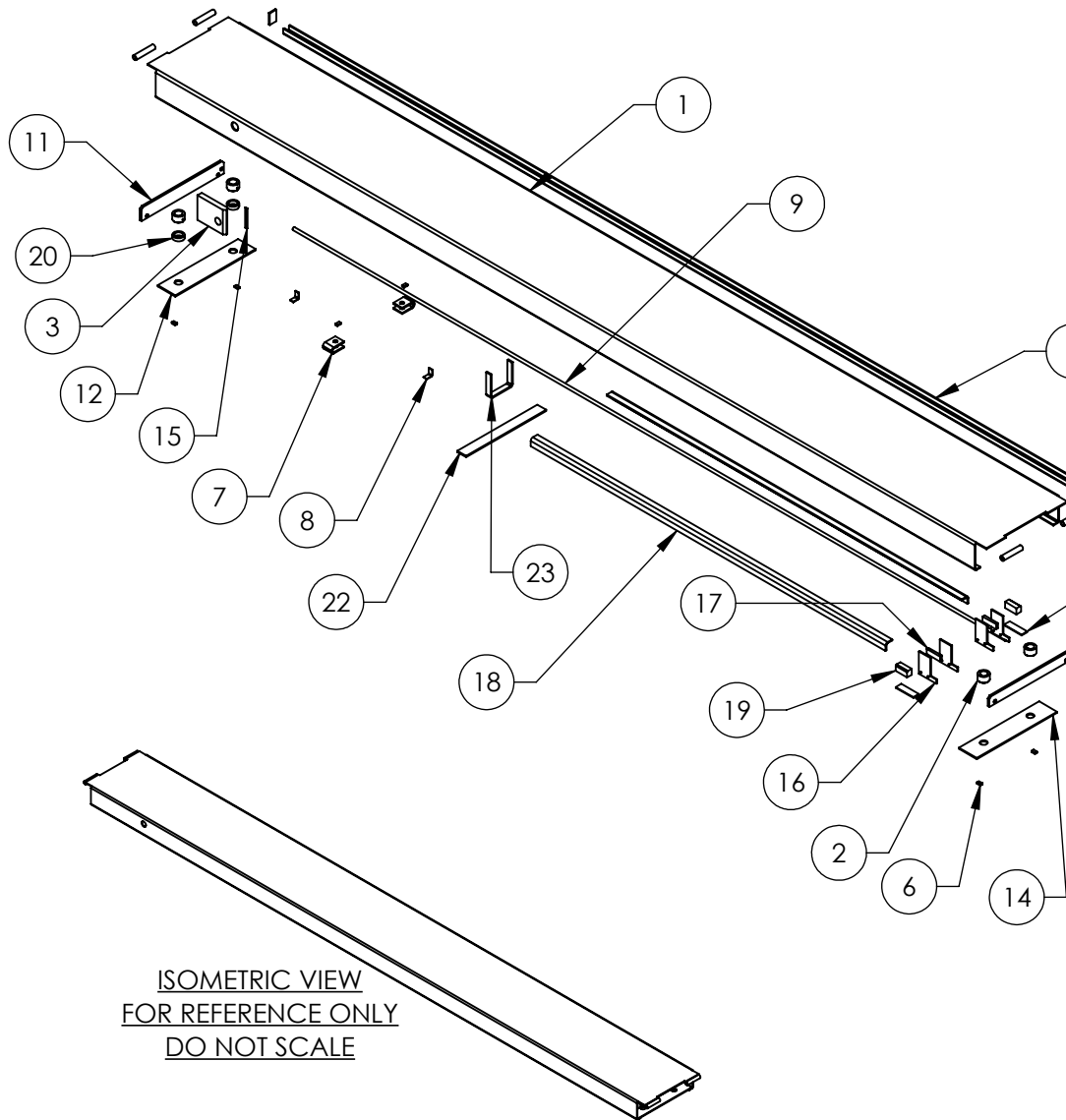
NOTE: UNLESS OTHERWISE SPECIFIED.

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-0724) 20% GLOSS

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701267	HD-973P LOWER OFF SIDE RAMP	1	C
2	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
3	5700359	HD-973P ROLLING BRIDGE BEAM	1	B
4	5735032	ROLLING JACK RAIL CLOSEOUT	2	C
5	5736090	HD-7/7500/9 RAMP END PLATE	2	D

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 06/28/2018	
	CHECKED	OR 12/16/2021	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION		TITLE: HD-973P LOWER OFF SIDE RAMP WELDMENT
			SIZE DWG. NO. REV A 5601271 D
NEXT ASSEMBLY 5245059			SCALE: 1:20 SHEET 1 OF 3

PROPRIETARY AND CONFIDENTIAL
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ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	ADDED 5701668, MOVED 5735090 WAS 1850 NOW 1609, REMOVED GRIT NOTE, ADDED GLOSS TO PAINT	04/06/2020	TM	01120
D	REPLACED 5601262 WITH 5735772 AND 5735088, UPDATED WELDING FOR THESE PARTS	03/26/2021	TM	01290
E	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 55 MIN TO EDGE, UPDATED BOM REVISION	12/09/2021	TM	01367

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5701559	HD-7MZ/973 UPPER POWER SIDE RAMP	1	A
2	5746190	HD-7/7500/9 RAMP SHEAVE BUSHING	4	C
3	5737092	HD-7MZ/973 CYLINDER CLEVIS	1	A
4	5700192	HD-7/7500/9 ROLLING BRIDGE BEAM, LONG	1	D
5	5735032	HD-7/9/14, HDS/HDSO-14, XR-12000 ROLLING JACK RAIL CLOSEOUT	2	C
6	5735028	PIN STOP	6	B
7	5701465	HD-7/7500/973 DIRECTIONAL SHEAVE BRACKET	2	C
8	5700300	HYDRAULIC HOSE HOLDER	2	A
9	5755024	AIR LINE TROUGH Ø13.5 x Ø9.5 x 4064	1	A
10	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
11	5736202	HD-7/7500/9 RAMP BOLT PLATE, 2-SHEAVE	1	D
12	5736201	HD-7/7500/9 RAMP END PLATE, 2-SHEAVE	1	B
13	5736205	HD-7/7500/973 RAMP BOLT PLATE, 4-SHEAVE	1	C
14	5736206	HD-7/7500/973 RAMP SHEAVE PLATE, 4-SHEAVE	1	A
15	5735352	SINGLE CLEVIS CYLINDER ALIGNMENT PLATE	1	A
16	5735772	HD-7/7500/973 CABLE PLUG ANCHOR PLATE	4	D
17	5735088	HD-7/7500/973 ANCHOR PLATE SPACER	2	B
18	5701563	HD-7MZ/973P PULL BOX SLIDE BLOCK RAMP RAIL	2	B
19	5735676	HD-7MZ/973 CABLE PLUG RETAINER SPACER	2	A
20	5745031	HD-7MZ/973 SHEAVE SPACER	2	A
21	5755069	HD-7MZ/973 CABLE RETAINER RAMP PLATE	2	A
22	5735090	HD-7/7500/9 RAMP STRAP	1	C
23	5701668	HD-7MZ/973 UPPER POWER SIDE RAMP CYLINDER BRACKET	1	A

WHERE USED
HD-973P

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
5215817

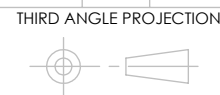
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	TM	01/16/2019
CHECKED	OR	12/16/2021

DIMENSIONS ARE IN MM
TOLERANCES:

0. = ±1.5
0.0 = ±0.5

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



THIRD ANGLE PROJECTION

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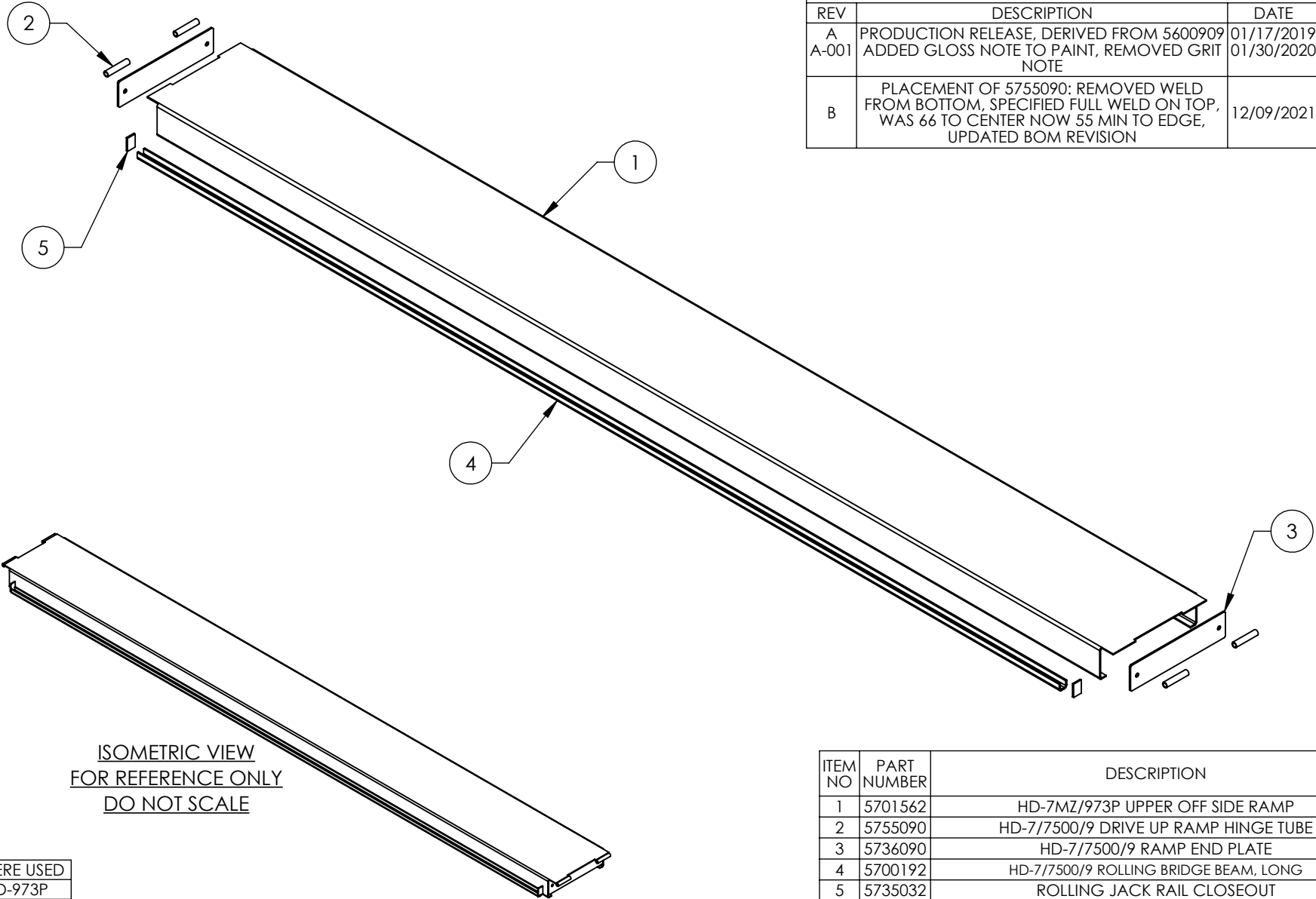
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD-973P UPPER POWER
SIDE RAMP WELDMENT

SIZE DWG. NO. REV
A 5601294 E

SCALE: 1:30

SHEET 1 OF 4



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-973P

- 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

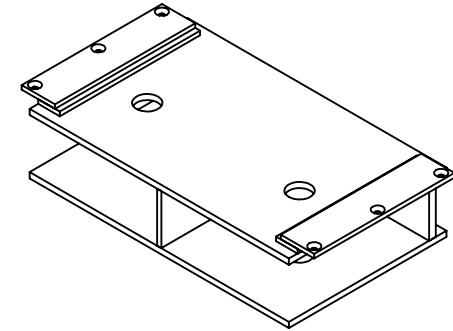
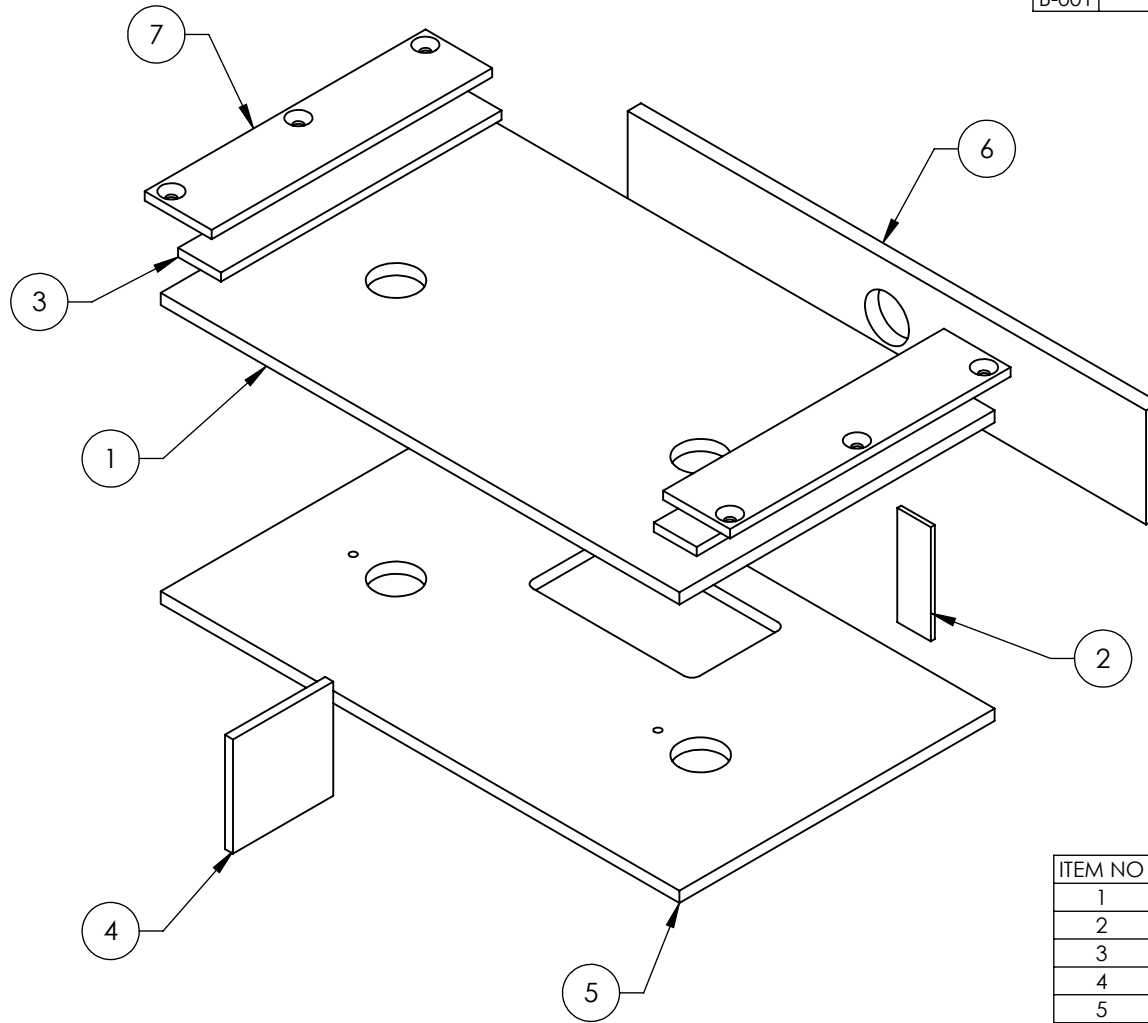
REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A A-001	PRODUCTION RELEASE, DERIVED FROM 5600909 ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	01/17/2019 01/30/2020	TM CA	01039 01120
B	PLACEMENT OF 5755090: REMOVED WELD FROM BOTTOM, SPECIFIED FULL WELD ON TOP, WAS 66 TO CENTER NOW 55 MIN TO EDGE, UPDATED BOM REVISION	12/09/2021	TM	01367

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701562	HD-7MZ/973P UPPER OFF SIDE RAMP	1	A
2	5755090	HD-7/7500/9 DRIVE UP RAMP HINGE TUBE	4	C
3	5736090	HD-7/7500/9 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
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5	DRAWN	TM 01/17/2019	
	CHECKED	OR 12/16/2021	
SURFACE FINISH 1.6 ISO R _a μm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION		TITLE: HD-973P UPPER OFF SIDE RAMP WELDMENT
			SIZE DWG. NO. REV A 5601295 B
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NEXT ASSEMBLY
5245059

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600300	01/24/2019	TM	01039
B	REPLACED 5737095 WITH 5736646 AND 5737096 WITH 5736647	07/29/2019	CA	01108
B-001	ADDED GLOSS NOTE TO PAINT	01/30/2020	CA	01120



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-973P SERIES

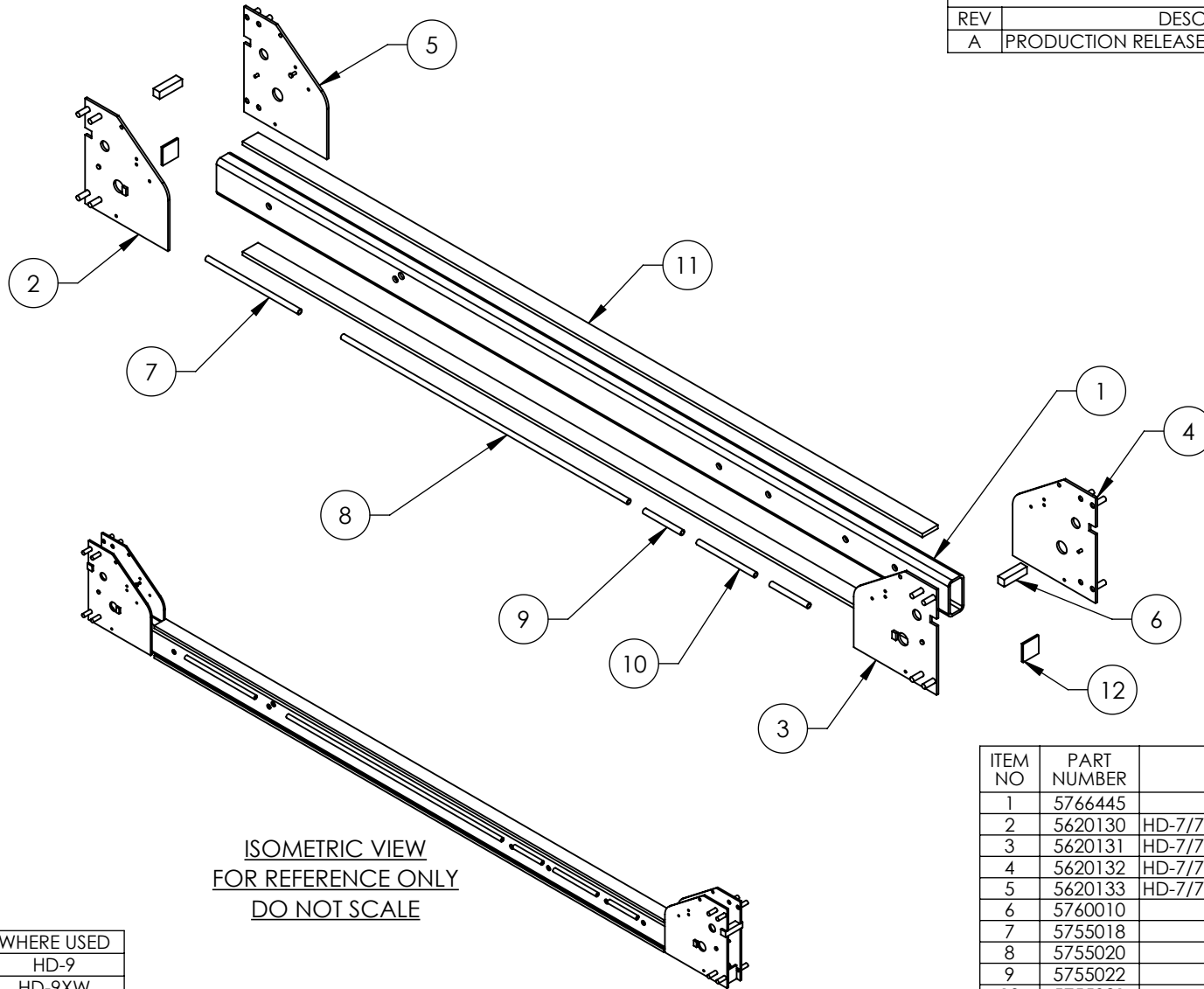
NOTE: UNLESS OTHERWISE SPECIFIED.

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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5736646	HD-7P SERIES PULL BOX TOP PLATE	1	D
2	5735089	HD-7P SERIES PULLBOX CABLE STOPPER	2	B
3	5735677	HD SERIES PULL BOX SLIDE BLOCK SPACER BAR	2	A
4	5735774	HD-7 SERIES PULL BOX STIFFENER	1	B
5	5736647	HD-7P SERIES PULL BOX BOTTOM PLATE	1	D
6	5736648	HD-7 SERIES PULL BOX BACK PLATE	1	B
7	5737094	HD SERIES PULL BOX PLASTIC BLOCK HOLDER	2	A

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 01/22/2019	
	CHECKED	-- --	
SURFACE FINISH 1.6 ISO Ra μm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION		TITLE:
			HD SERIES PULL BOX WELDMENT
NEXT ASSEMBLY 5215819		<small>PROPRIETARY AND CONFIDENTIAL</small> <small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>	SIZE DWG. NO. REV A 5601301 B
SCALE: 1:4			SHEET 1 OF 2

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

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

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

DIMENSIONS ARE IN MM
TOLERANCES:
0. = ±1.5
0.0 = ±0.5

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

THIRD ANGLE PROJECTION



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

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

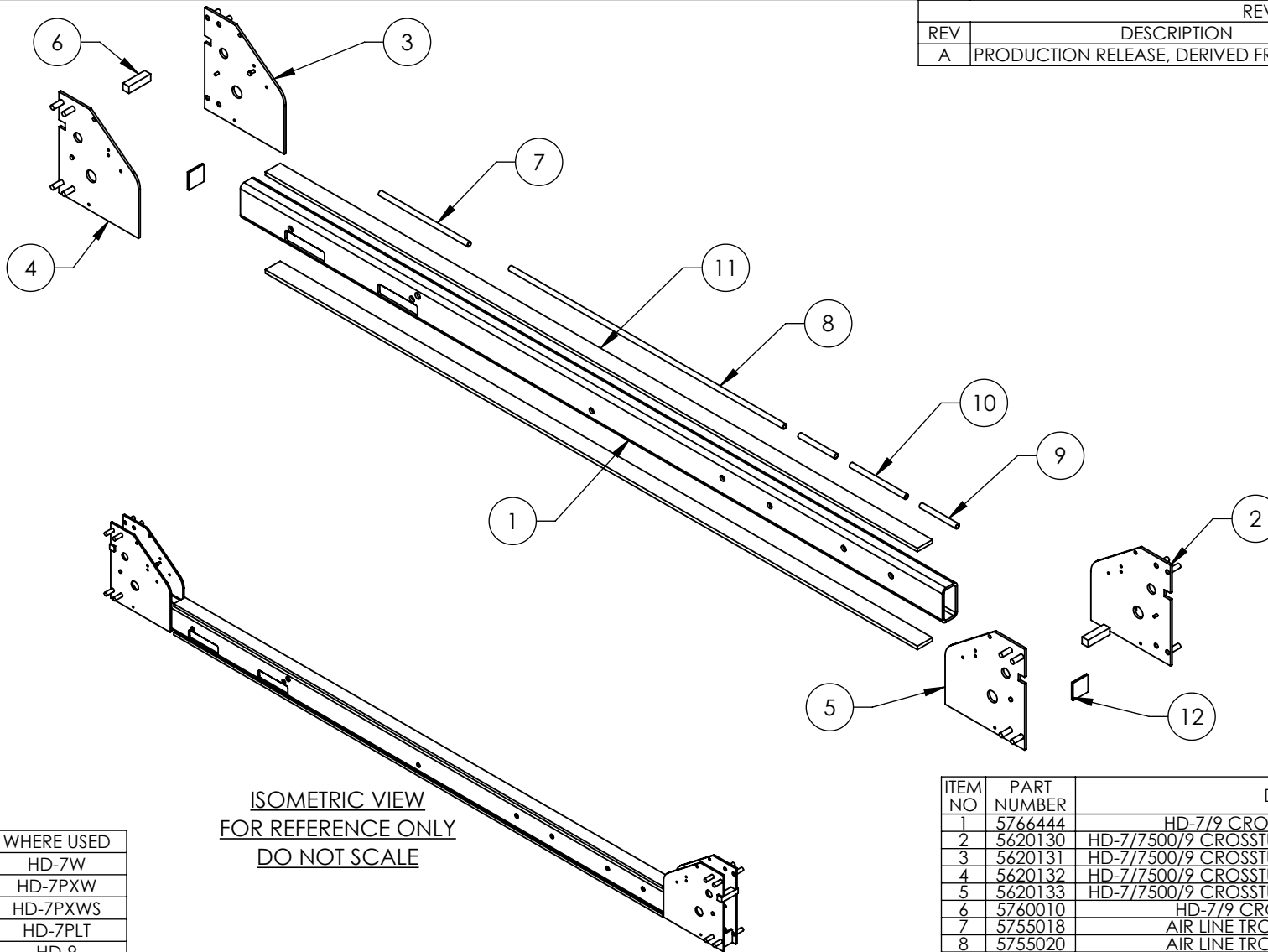
SIZE	DWG. NO.	REV
A	5601821	A

SCALE: 1:15

SHEET 1 OF 2

NEXT ASSEMBLY
5216156

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

NAME DATE
DRAWN TM 04/29/2022

CHECKED OR 06/10/2022

THIRD ANGLE PROJECTION



DIMENSIONS ARE IN MM
TOLERANCES:
0. = ±1.5
0.0 = ±0.5

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

PROPRIETARY AND CONFIDENTIAL
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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-7/9/973P CROSSTUBE
WELDMENT, SMALL WINDOW

SIZE DWG. NO. REV

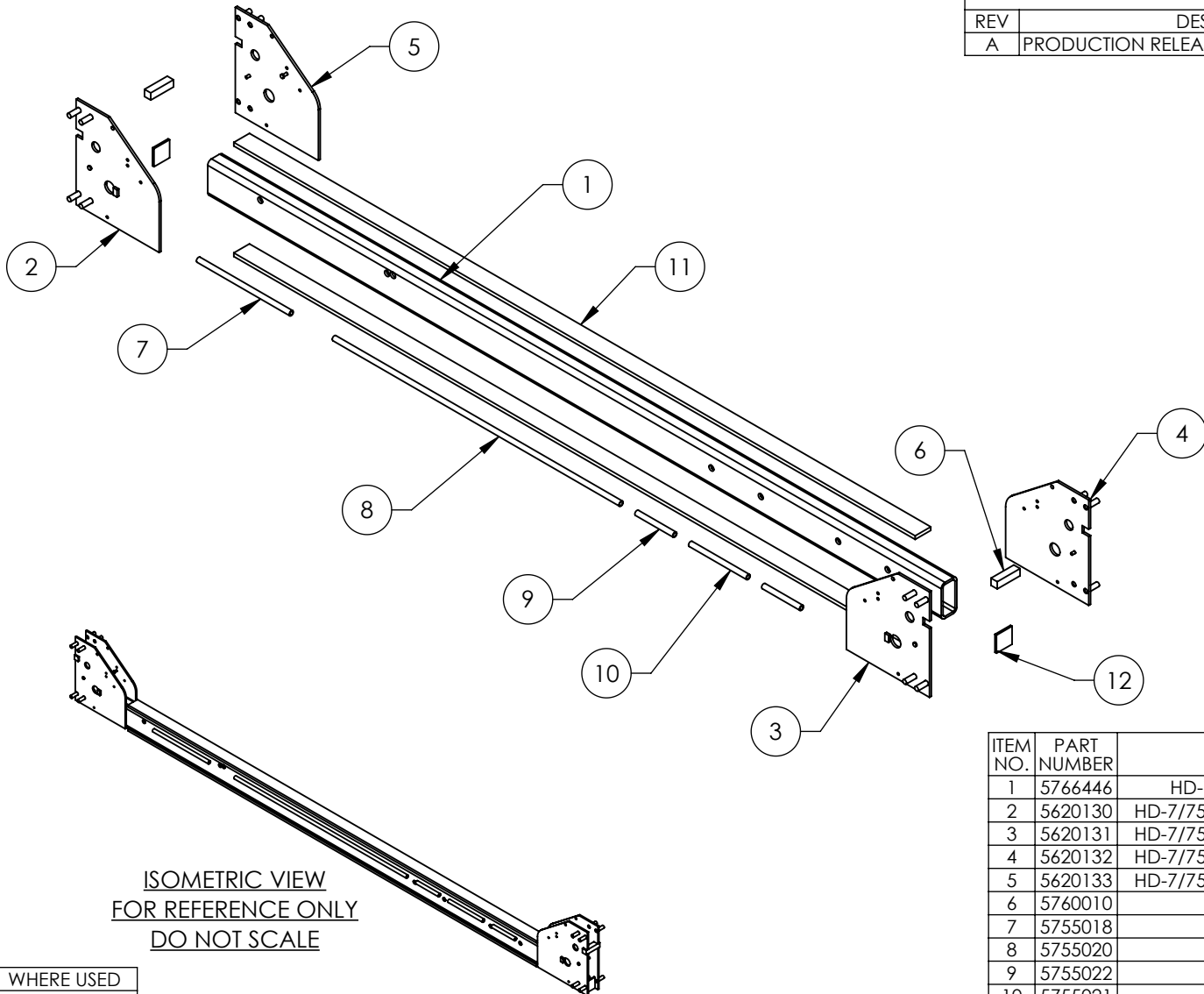
A 5601822 A

SCALE: 1:15

SHEET 1 OF 2

NEXT ASSEMBLY
5216155

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600716	05/02/2023	TM	01414



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HD-7W
HD-7PWX
HD-7PLT
HD-973P
HD-973PX

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	5766446	HD-7W/7MZ/973 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	NAME	DATE
	DRAWN TM	05/02/2022
	CHECKED OR	06/10/2022
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5	THIRD ANGLE PROJECTION	
SURFACE FINISH 1.6 ISO R _a μm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		
<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		

BendPak.
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
**HD-7W/973P CROSSTUBE
WELDMENT, LARGE WINDOW**

SIZE DWG. NO.	REV
A 5601823	A

SCALE: 1:15 SHEET 1 OF 2

NEXT ASSEMBLY
5216157

PART SPECIFICATION FORM (STANDARD)

BENDPAK Number:	5900076
MRP Description:	HD-973P INSTALLATION MANUAL
Date:	01/14/2021
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
bendpak.com

**Multi-Level Parking Lift
Installation and Operation Manual**

Manual P/N 5900076 — Manual Revision B2— January 2021

Model:

- HD-973P
- HD-973PX



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 and assume full responsibility for product use.

Print Settings for BendPak Manuals

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

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

2. Vendor Information (Or for Reference)

Approved Vendor	Vendor Part #	Contact #	Preferred Vendor
1)			

OR BENDPAK ENGINEERING APPROVED EQUIVALENT