

Service Manual

SERVICE PARTS & DIAGRAMS

BENDPAK

HDS-14LSXE

PRODUCT SKU
5175172

DRAWING Nº
5260601

CATEGORY
Four Post Lift

REV
Version J

DATE
08.29.2022



BendPak.

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

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

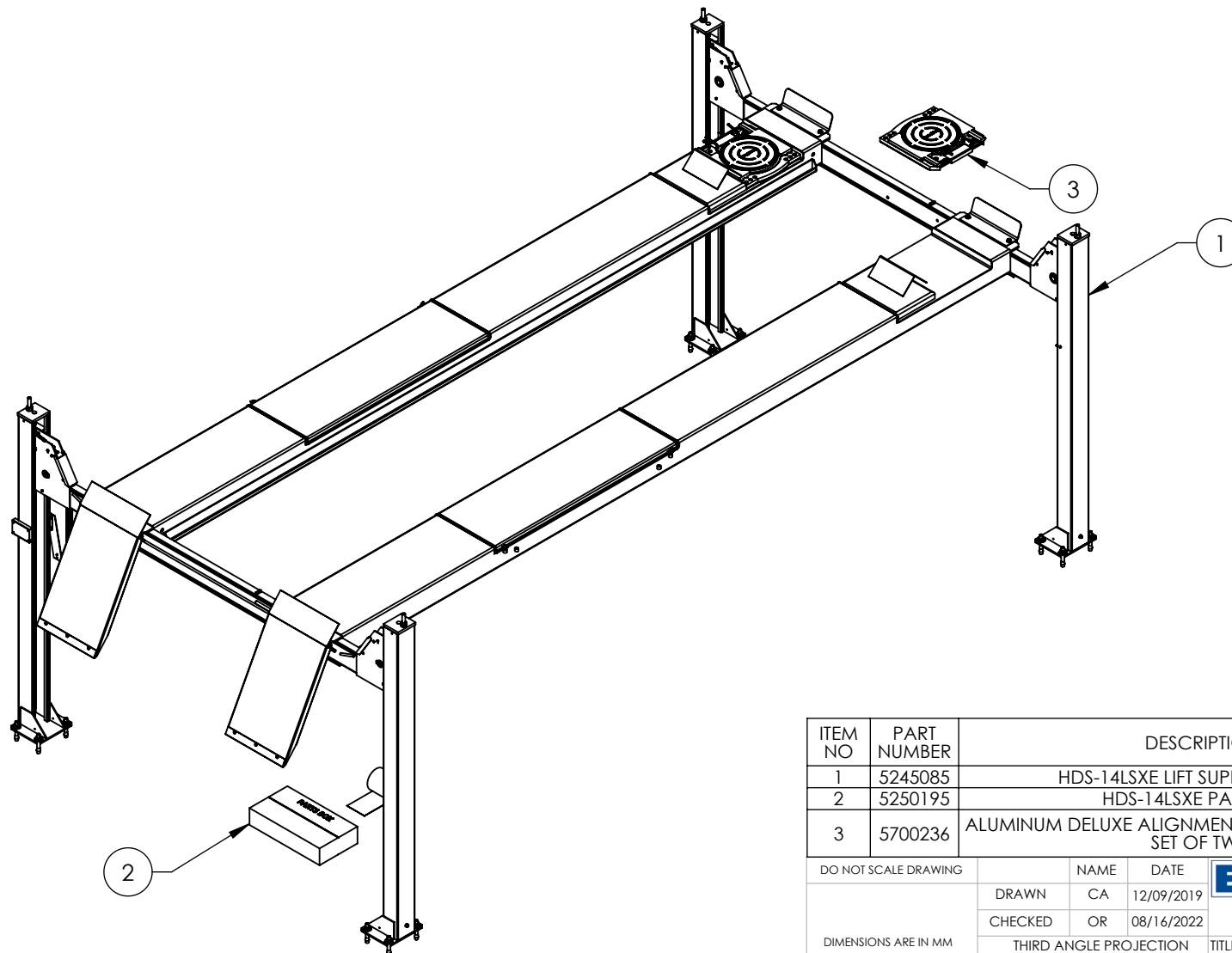
Customer Service Desk / Warranty
Customer Service Representatives
Office Tel: 1-805-933-9970
Toll Free US/Canada: 1-800-253-2363
Fax: 1-805-933-9160
customerservice@bendpak.com

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

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

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

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
G	REPLACED LABELS WITH COLORS & GRAPHICS NOTE	09/27/2021	TM	01344
H	UPDATED BOM REVISIONS	05/24/2022	TM	01414
J	WAS 120.6 NOW 102.9, UPDATED BOM REVISION	08/11/2022	TM	01436



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

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5245085	HDS-14LSXE LIFT SUPERSTRUCTURE	1	G
2	5250195	HDS-14LSXE PARTS BOX	1	N
3	5700236	ALUMINUM DELUXE ALIGNMENT TURNPLATE ASSEMBLY, SET OF TWO	1	-

DO NOT SCALE DRAWING

NAME	DATE
DRAWN CA	12/09/2019
CHECKED OR	08/16/2022

THIRD ANGLE PROJECTION



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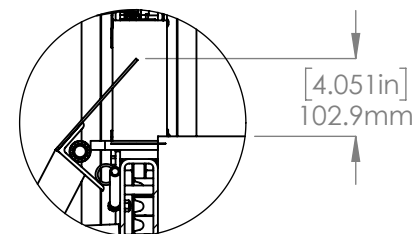
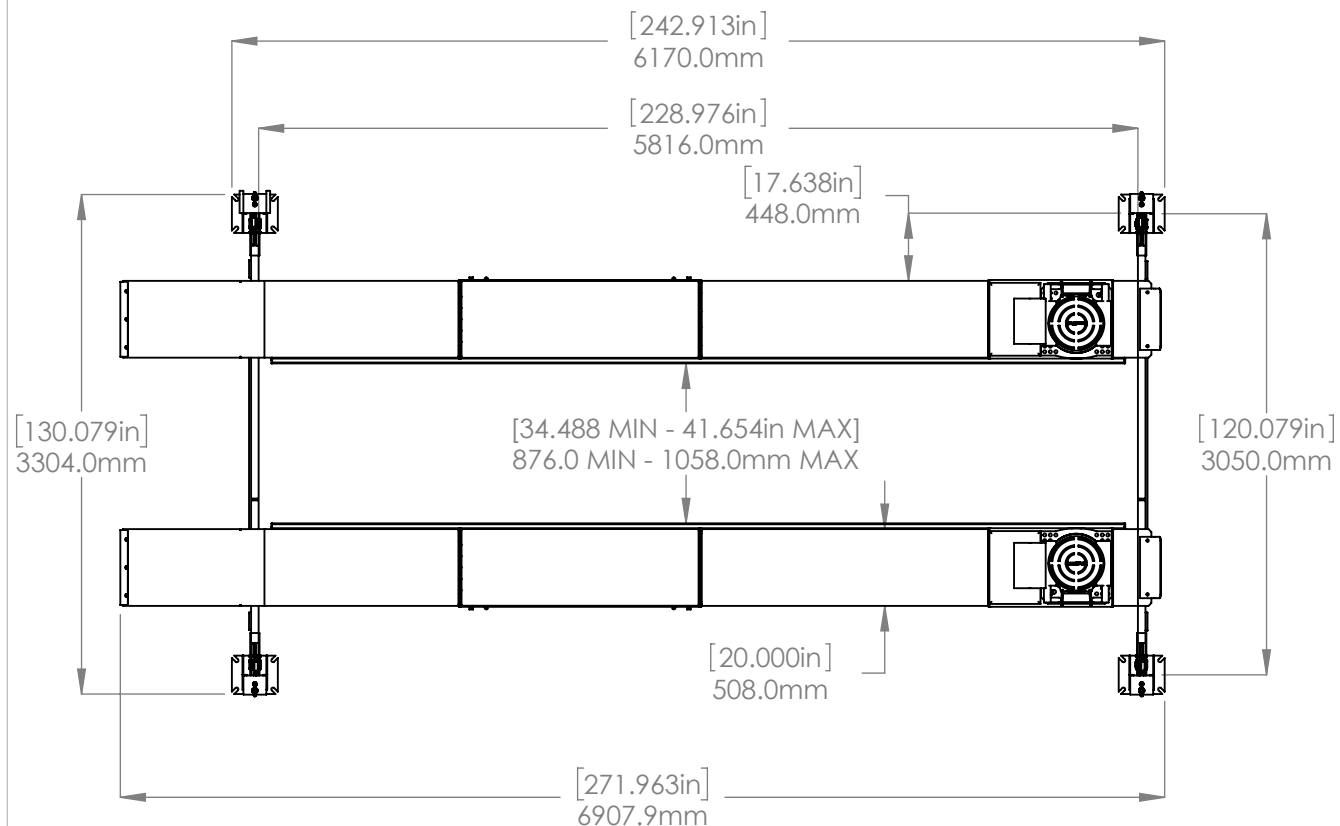
BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HDS-14LSXE PRODUCTION
LIFT VER D (CE CERT)

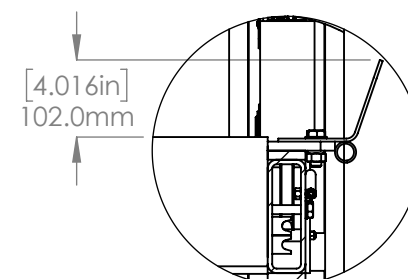
SIZE	DWG. NO.	REV
A	5260601	J

SCALE: 1:40

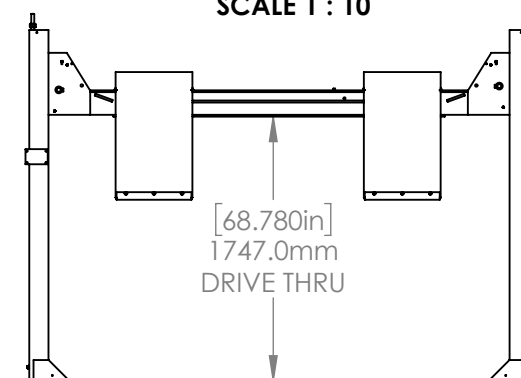
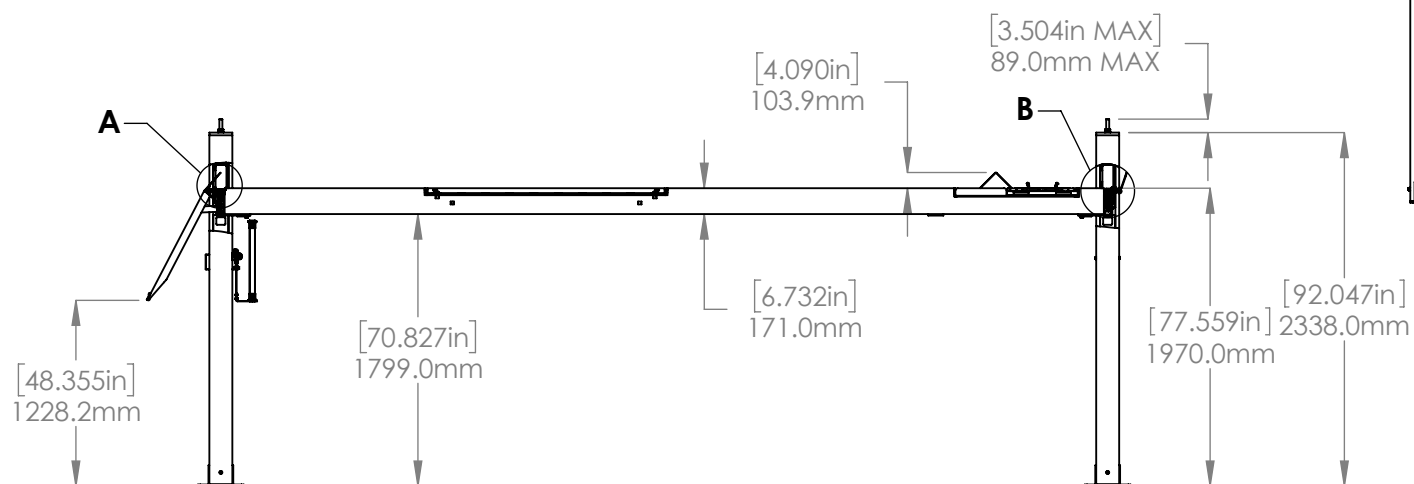
SHEET 1 OF 3



DETAIL A
SCALE 1 : 10



DETAIL B
SCALE 1 : 10



FRONT VIEW

BendPak.

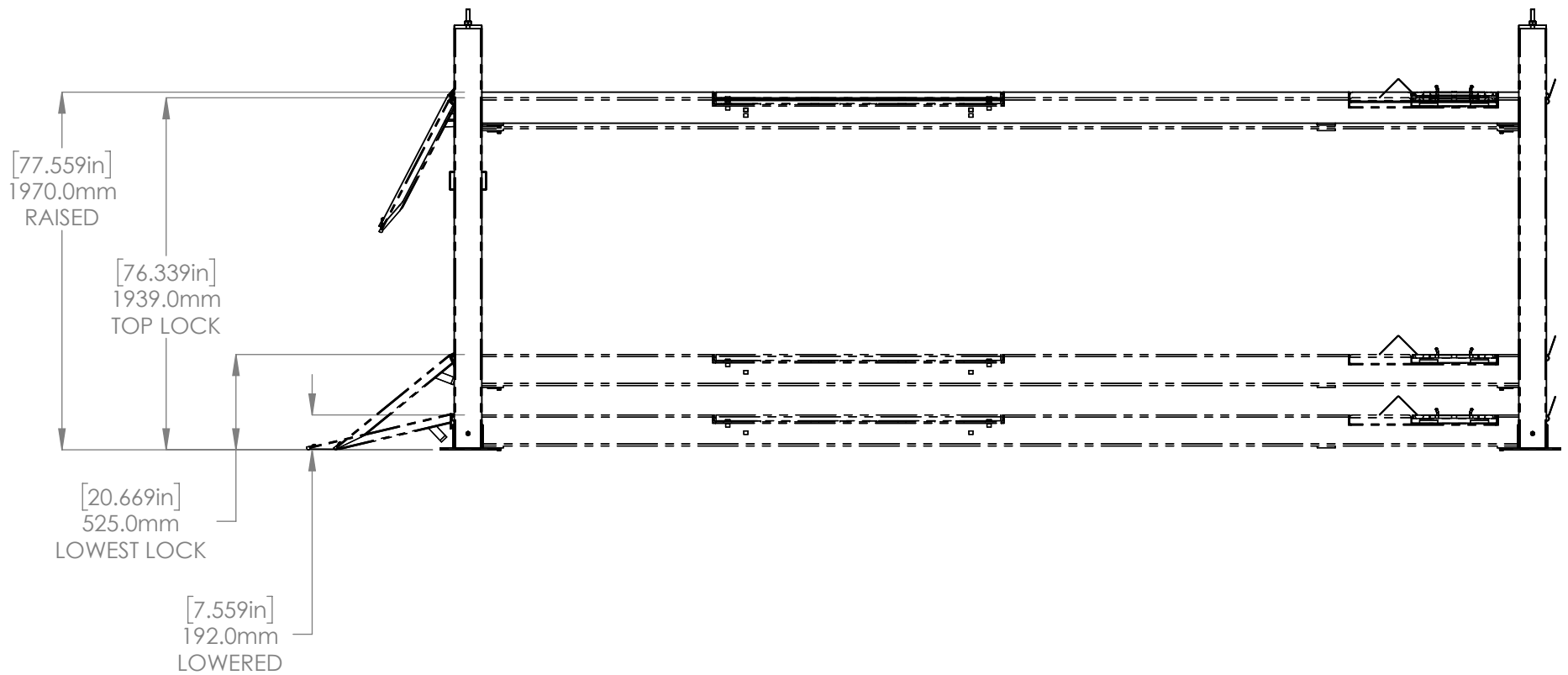
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HDS-14LSXE PRODUCTION
LIFT VER D (CE CERT)

SIZE DWG. NO. REV
A 5260601 J

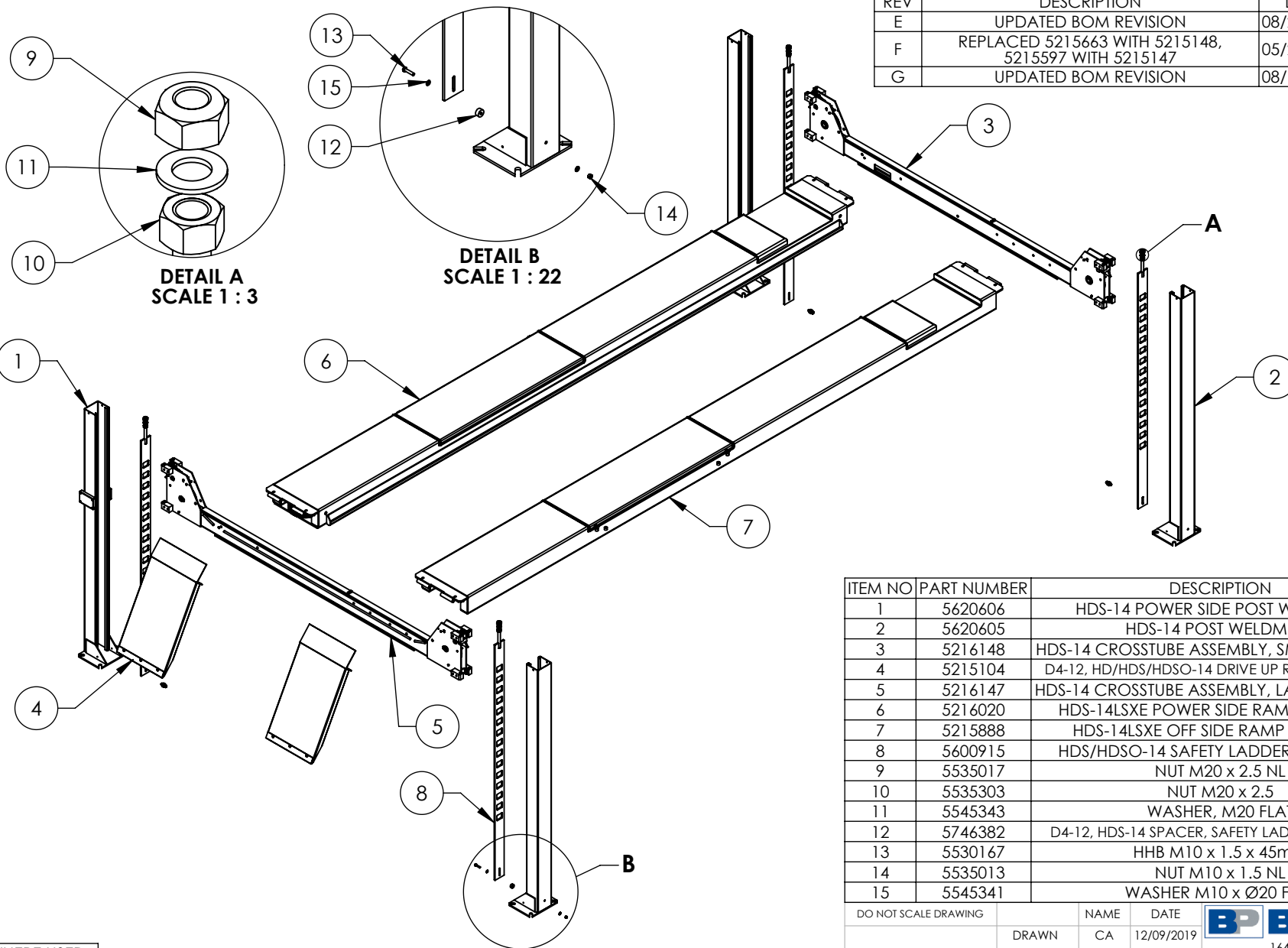
SCALE: 1:50

SHEET 2 OF 3



1. DIMENSIONS SHOWN ARE WITH THE LOCK LADDERS ADJUSTED ALL THE WAY UP

1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: HDS-14LSXE PRODUCTION LIFT VER D (CE CERT)		
SIZE A	DWG. NO. 5260601	REV J
SCALE: 1:35		SHEET 3 OF 3



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
E	UPDATED BOM REVISION	08/23/2021	CA	01322
F	REPLACED 5215663 WITH 5215148, 5215597 WITH 5215147	05/23/2022	TM	01414
G	UPDATED BOM REVISION	08/11/2022	TM	01436

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5620606	HDS-14 POWER SIDE POST WELDMENT	1	A
2	5620605	HDS-14 POST WELDMENT	3	A
3	5216148	HDS-14 CROSSTUBE ASSEMBLY, SMALL WINDOW	1	A
4	5215104	D4-12, HD/HDS/HDSO-14 DRIVE UP RAMP ASSEMBLY	2	J
5	5216147	HDS-14 CROSSTUBE ASSEMBLY, LARGE WINDOW	1	A
6	5216020	HDS-14LSXE POWER SIDE RAMP ASSEMBLY	1	B
7	5215888	HDS-14LSXE OFF SIDE RAMP ASSEMBLY	1	B
8	5600915	HDS/HDSO-14 SAFETY LADDER WELDMENT	4	B
9	5535017	NUT M20 x 2.5 NL	4	-
10	5535303	NUT M20 x 2.5	4	-
11	5545343	WASHER, M20 FLAT	4	-
12	5746382	D4-12, HDS-14 SPACER, SAFETY LADDER, 15mm LG	4	A
13	5530167	HHB M10 x 1.5 x 45mm	4	-
14	5535013	NUT M10 x 1.5 NL	4	-
15	5545341	WASHER M10 x Ø20 FLAT	8	-

WHERE USED
HDS-14LSXE

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
3. THREAD M20 HARDWARE ONTO LADDER BOLTS AS SHOWN

NEXT ASSEMBLY
5260601

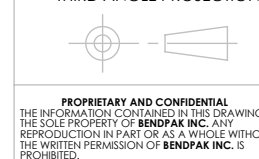
DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN CA	12/09/2019
CHECKED OR	08/16/2022

THIRD ANGLE PROJECTION

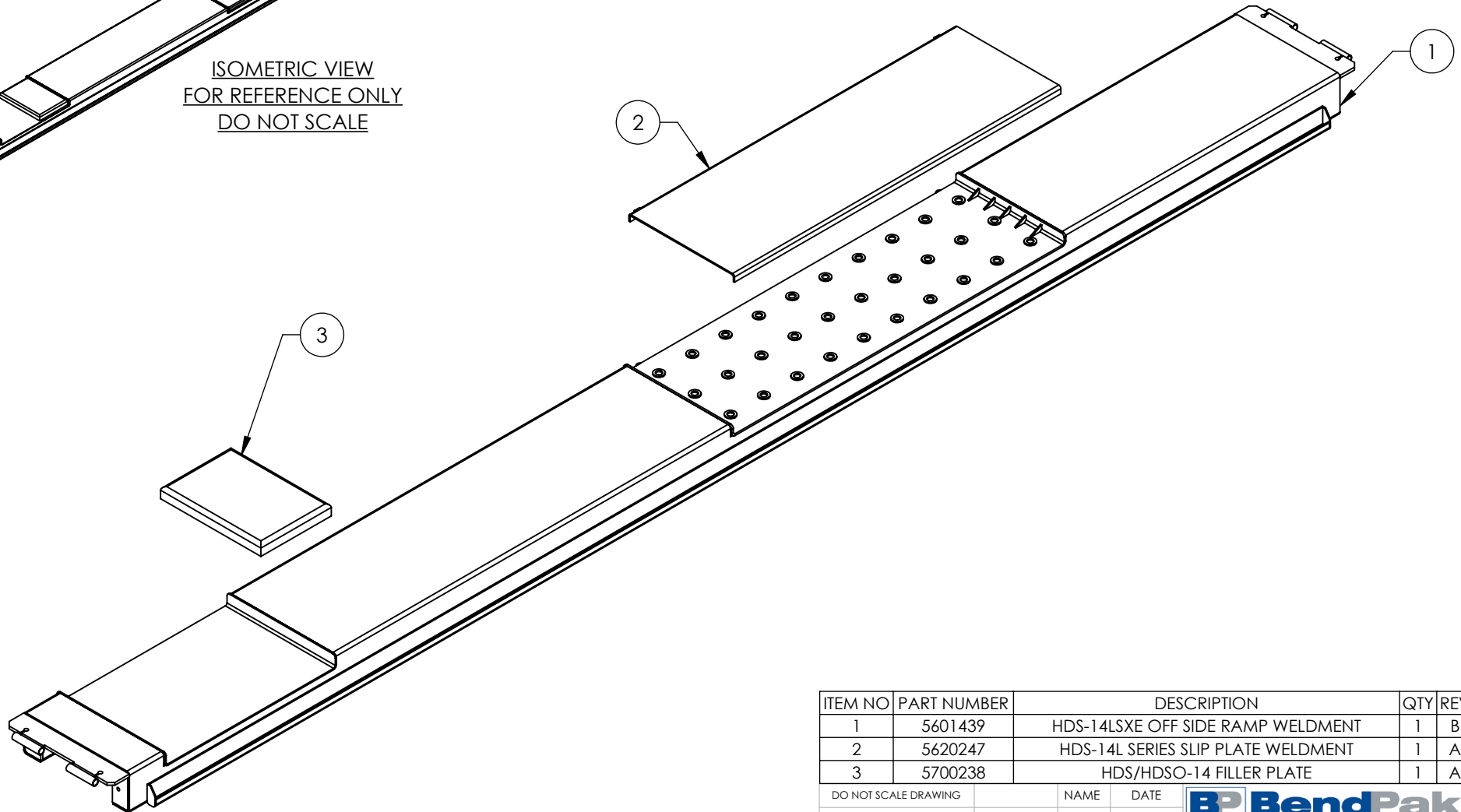
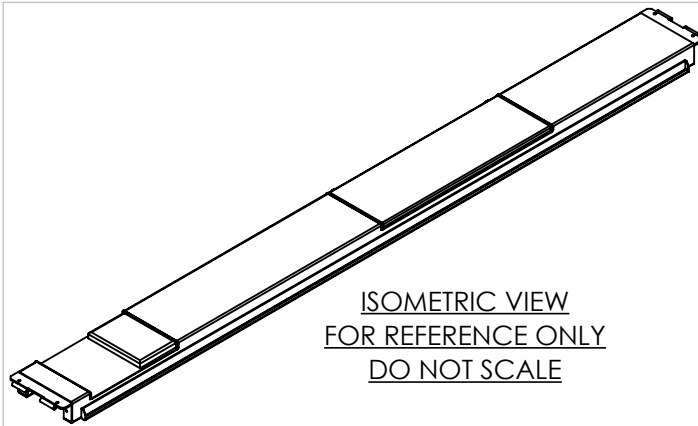


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TITLE:	HDS-14LSXE LIFT SUPERSTRUCTURE		
SIZE DWG. NO.	A 5245085		
REV	G		
SCALE: 1:45	SHEET 1 OF 1		

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215272	12/09/2019	CA	01120
B	UPDATED BOM REVISION	02/24/2021	CA	01276



WHERE USED
HDS-14LSXE

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
5245085

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601439	HDS-14LSXE OFF SIDE RAMP WELDMENT	1	B
2	5620247	HDS-14L SERIES SLIP PLATE WELDMENT	1	A
3	5700238	HDS/HDSO-14 FILLER PLATE	1	A

DO NOT SCALE DRAWING

NAME	DATE
DRAWN CA	12/09/2019
CHECKED OR	02/26/2021

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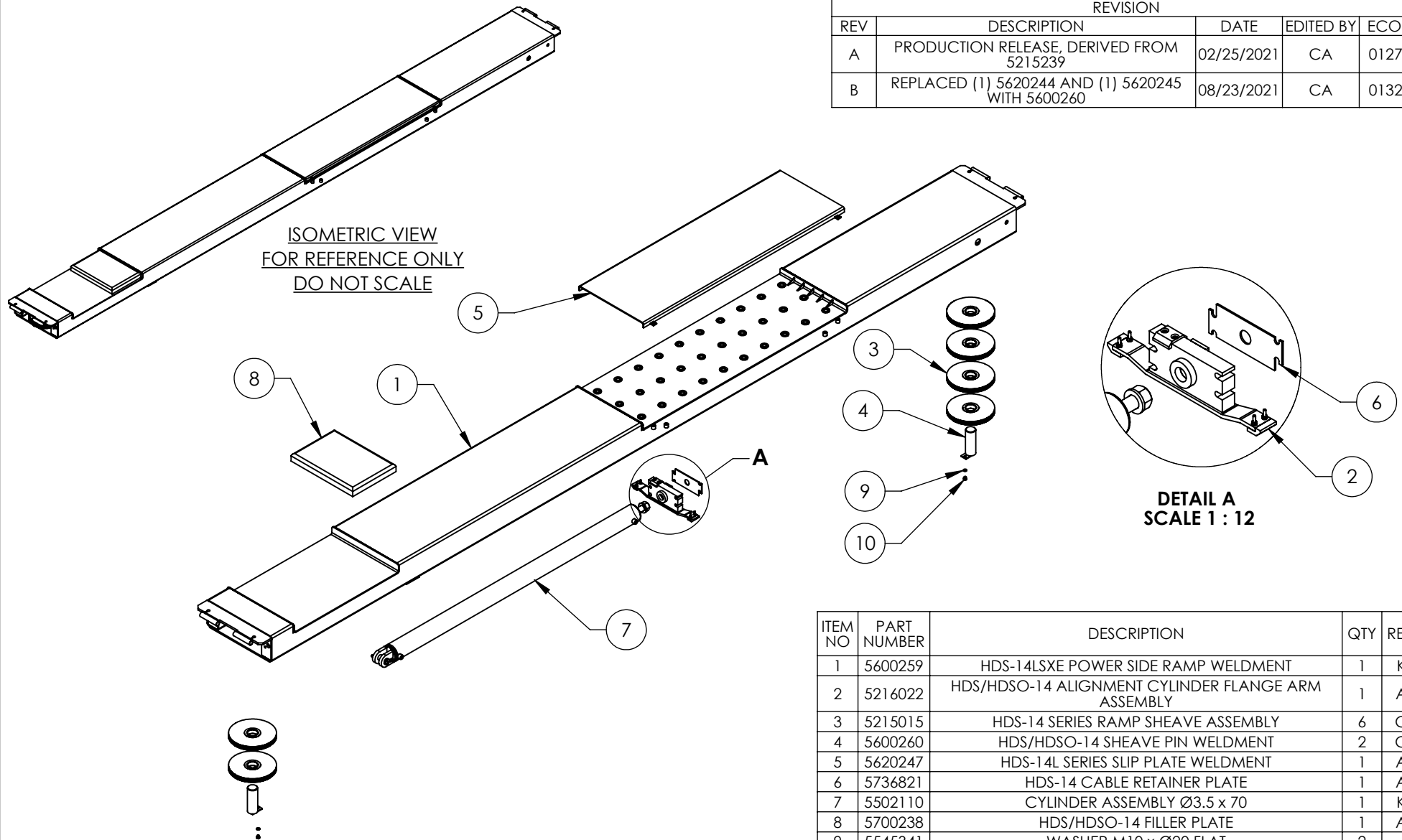
TITLE: HDS-14LSXE OFF SIDE
RAMP ASSEMBLY

SIZE	DWG. NO.	REV
A	5215888	B

SCALE: 1:20

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215239	02/25/2021	CA	01276
B	REPLACED (1) 5620244 AND (1) 5620245 WITH 5600260	08/23/2021	CA	01322



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600259	HDS-14LSXE POWER SIDE RAMP WELDMENT	1	K
2	5216022	HDS/HDSO-14 ALIGNMENT CYLINDER FLANGE ARM ASSEMBLY	1	A
3	5215015	HDS-14 SERIES RAMP SHEAVE ASSEMBLY	6	C
4	5600260	HDS/HDSO-14 SHEAVE PIN WELDMENT	2	C
5	5620247	HDS-14L SERIES SLIP PLATE WELDMENT	1	A
6	5736821	HDS-14 CABLE RETAINER PLATE	1	A
7	5502110	CYLINDER ASSEMBLY Ø3.5 x 70	1	K
8	5700238	HDS/HDSO-14 FILLER PLATE	1	A
9	5545341	WASHER M10 x Ø20 FLAT	2	-
10	5530281	HHB M10 x 1.5 x 10	2	-

DO NOT SCALE DRAWING

NAME DATE
DRAWN CA 02/25/2021
CHECKED OR 09/15/2021

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THIRD ANGLE PROJECTION



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TITLE: HDS-14LSXE POWER SIDE RAMP ASSEMBLY

SIZE DWG. NO. REV
A 5216020 B

SCALE: 1:30

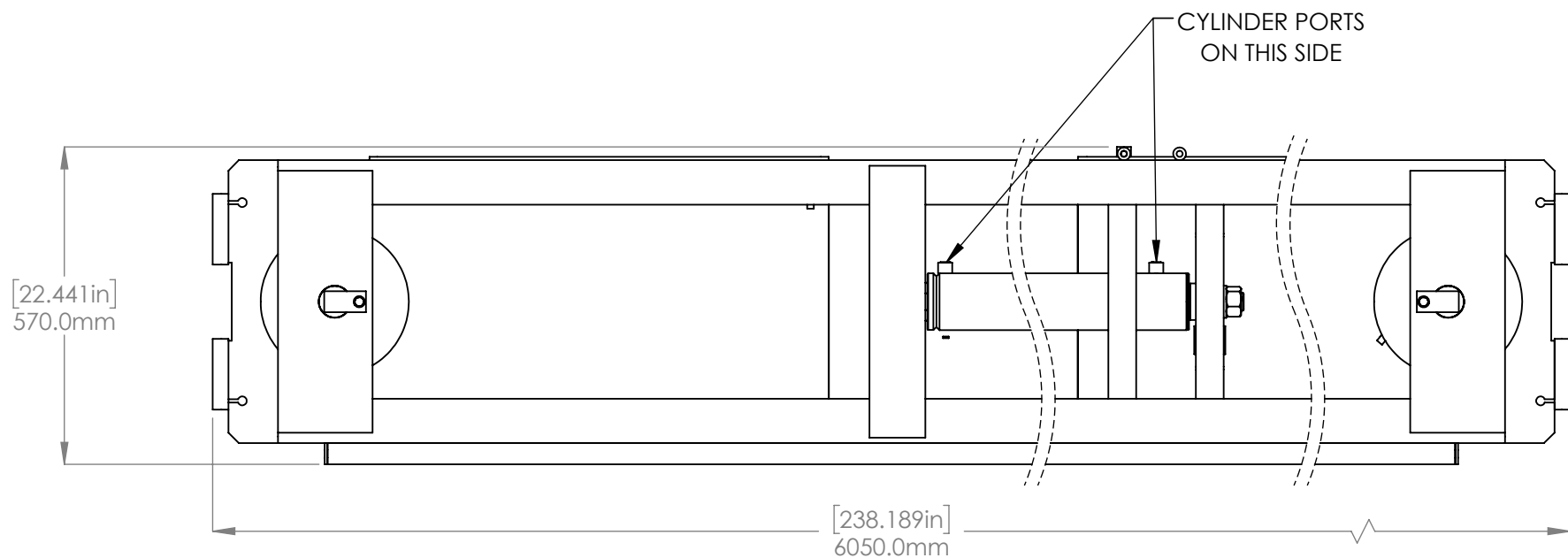
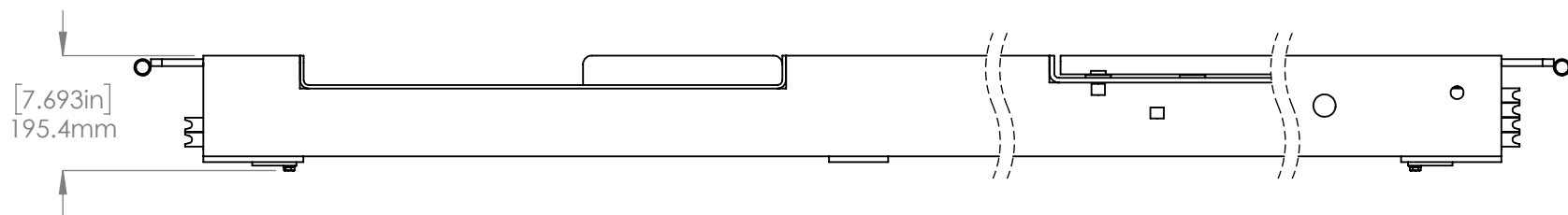
SHEET 1 OF 2

WHERE USED
HDS-14LSXE

NOTE: UNLESS OTHERWISE SPECIFIED.

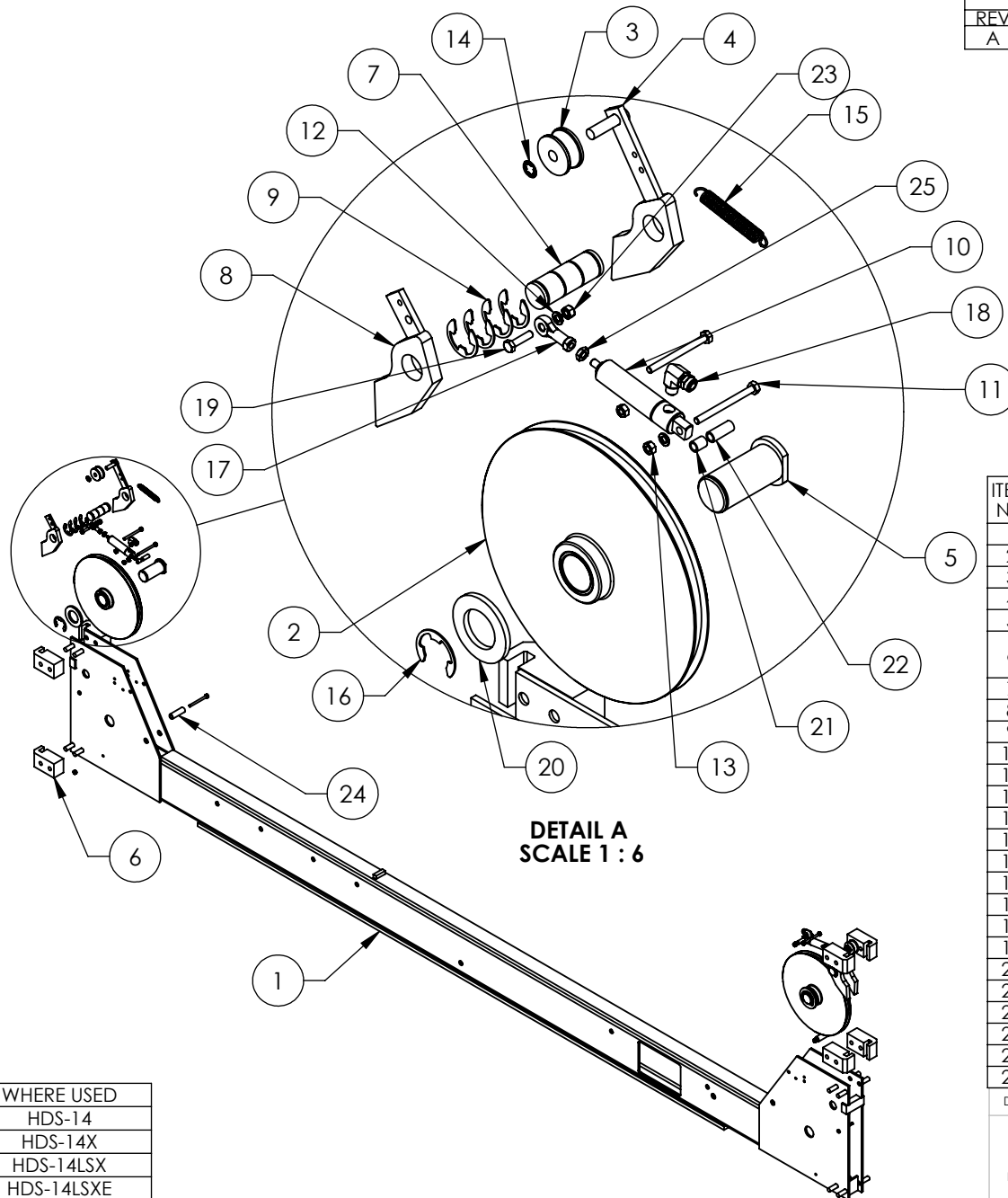
- REFER TO MODEL FOR ADDITIONAL INFORMATION
- VERIFY CYLINDER PORTS ARE CAPPED OFF WITH STEEL 3/8" NPT PLUG
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

NEXT ASSEMBLY
5245085



BP BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: HDS-14LSXE POWER SIDE RAMP ASSEMBLY		
SIZE	DWG. NO.	REV
A	5216020	B
SCALE: 1:12		SHEET 2 OF 2

REVISION		DATE	EDITED BY	ECO#
REV	DESCRIPTION			
A	PRODUCTION RELEASE, DERIVED FROM 5215597	04/28/2022	TM	01414



DETAIL A
SCALE 1 : 6

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601814	HDS-14 CROSSTUBE WELDMENT, LARGE WINDOW	1	A
2	5215013	HDS-14 CROSSTUBE SHEAVE ASSEMBLY	2	B
3	5575380	D4-12, HD/HDS/HDSO-14 SAFETY ROLLER	2	C
4	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
5	5600173	D4-12, HD/HDS/HDSO-14 SHEAVE PIN WELDMENT	2	G
6	5716005	D4-12, HD-7/7500/9/14/HDSO-14 POLYETHYLENE SLIDE BLOCK	8	M
7	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	2	D
8	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
9	5540275	E RING Ø25mm OD DIN 6799 0250	8	-
10	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	-
11	5530005	HHB M6 x 1 x 70	6	-
12	5545005	WASHER, M6 x 12mm FLAT	4	-
13	5535112	NUT M6 x 1.0	4	-
14	5505030	PUSH-ON CLIP Ø10mm SS	2	-
15	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
16	5540002	E RING Ø1.375" OD TRUARC X5133-137	2	-
17	5505625	FEMALE ROD END M6 x 33	2	-
18	5550087	FTG ELB -04 COMP x -02 NPT	2	-
19	5530756	HHB M6 x 1.0 x 25mm	2	-
20	5545032	WASHER M36 x 66 FLAT	2	-
21	5755136	AIR CYLINDER SPACER 12mm	2	A
22	5755137	AIR CYLINDER SPACER 25mm	2	A
23	5535357	NUT M6 x 1.0 NL	4	-
24	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	2	A
25	5535230	NUT 1/4-28 JN	2	-

WHERE USED

HDS-14
HDS-14X
HDS-14LSX
HDS-14LSXE

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
5245082
5245083
5245084
5245085

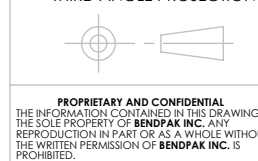
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DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	04/28/2022
CHECKED	

THIRD ANGLE PROJECTION



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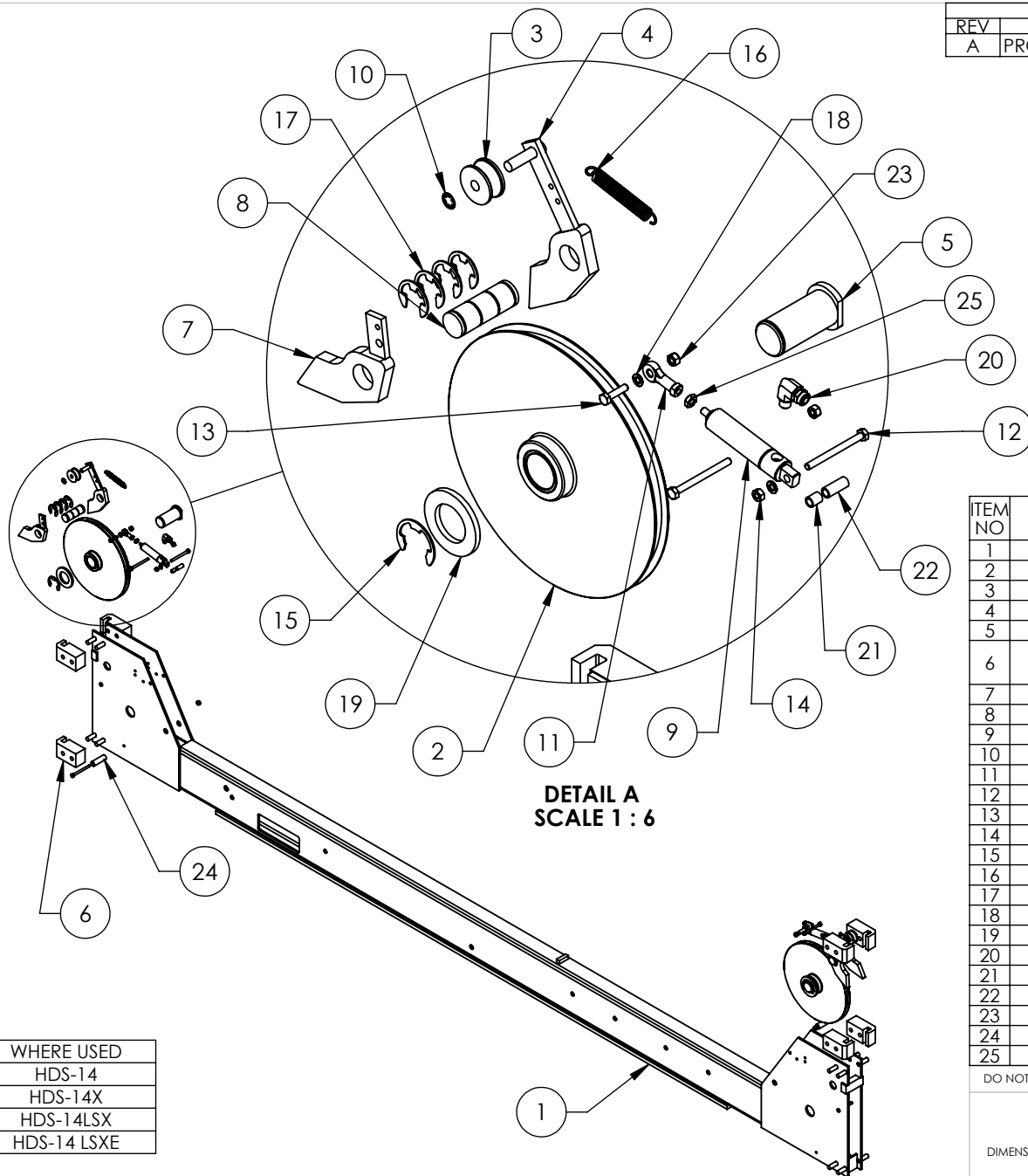
TITLE: HDS-14 CROSSTUBE ASSEMBLY, LARGE WINDOW

SIZE	DWG. NO.	REV
A	5216147	A

SCALE: 1:20

SHEET 1 OF 1

REVISION		DATE	EDITED BY	ECO#
REV	DESCRIPTION			
A	PRODUCTION RELEASE, DERIVED FROM 5215663	05/02/2023	TM	01414



DETAIL A
SCALE 1 : 6

WHERE USED

HDS-14
HDS-14X
HDS-14LSX
HDS-14 LSXE

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	
5245082	
5245083	
5245084	
5245085	

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601826	HDS-14 CROSSTUBE WELDMENT, SMALL WINDOW	1	A
2	5215013	HDS-14 CROSSTUBE SHEAVE ASSEMBLY	2	B
3	5575380	D4-12, HD/HDS/HDSO-14 SAFETY ROLLER	2	C
4	5600044	4 POST LIGHT DUTY SLACK SAFETY WELDMENT	2	F
5	5600173	D4-12, HD/HDS/HDSO-14 SHEAVE PIN WELDMENT	2	G
6	5716005	D4-12, HD-7/7500/9/14/HDSO-14 POLYETHYLENE SLIDE BLOCK	8	M
7	5600760	D4-12, HD/HDS LIGHT DUTY SAFETY WELDMENT	2	C
8	5746008	D4-12, HD/HDS-7/7500/9/14, HDSO-14 SAFETY PIN	2	D
9	5502195	AIR CYLINDER, Ø19mm x 25 STROKE	2	--
10	5505030	PUSH-ON CLIP Ø10mm SS	2	--
11	5505625	FEMALE ROD END M6 x 33	2	--
12	5530005	HHB M6 x 1 x 70	6	--
13	5530756	HHB M6 x 1.0 x 25mm	2	--
14	5535112	NUT M6 x 1.0	2	--
15	5540002	E RING Ø1.375" OD TRUARC X5133-137	2	--
16	5540065	SPRING Ø13mm x 90mm, SLACK SAFETY	2	A
17	5540275	E RING Ø25mm OD DIN 6799 0250	8	--
18	5545005	WASHER, M6 x 12mm FLAT	4	--
19	5545032	WASHER M36 x 66 FLAT	2	--
20	5550087	FTG ELB -04 COMP x -02 NPT	2	--
21	5755136	AIR CYLINDER SPACER 12mm	2	A
22	5755137	AIR CYLINDER SPACER 25mm	2	A
23	5535357	NUT M6 x 1.0 NL	6	--
24	5755157	D4-12, HD-7/7500/9 CROSSTUBE SPACER Ø16 x Ø10 x 50	2	A
25	5535230	NUT 1/4-28 JN	2	--

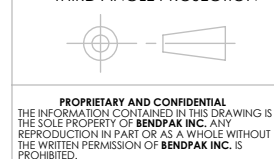
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NAME		DATE
DRAWN	TM	05/02/2022
CHECKED		

THIRD ANGLE PROJECTION



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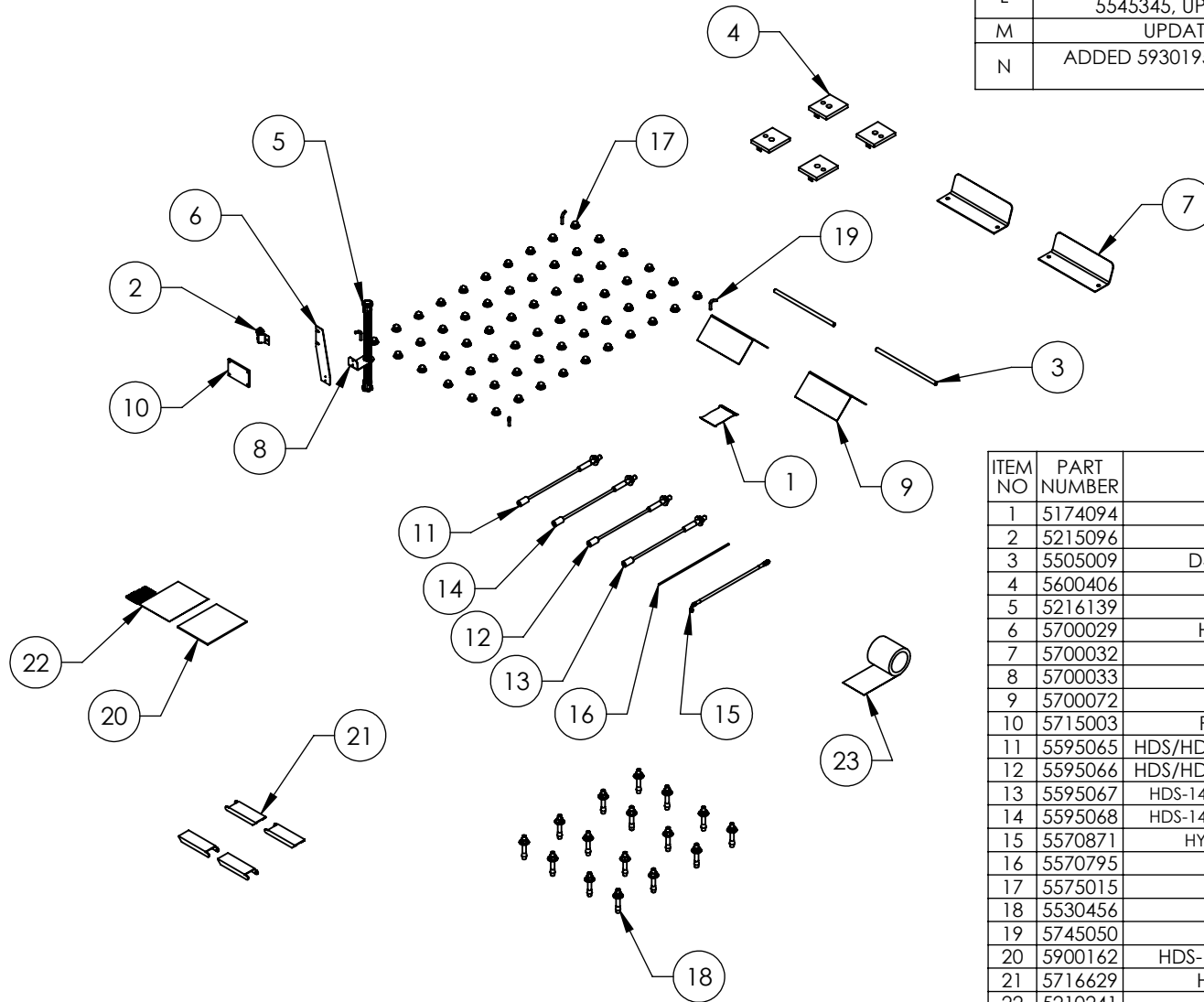
TITLE: HDS-14 CROSSTUBE ASSEMBLY, SMALL WINDOW

SIZE DWG. NO.		REV
A	5216148	A

SCALE: 1:20

SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
L	ADDED 5210241, REMOVED 5535011 AND 5545345, UPDATED BOM REVISIONS	07/21/2020	TM	01174
M	UPDATED BOM REVISION	08/19/2021	CA	01322
N	ADDED 5930195, REPLACED 5570050 WITH 5216139	05/04/2022	TM	01414 PRE A



ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5174094	D4-12, HD/HDS-14 PARTS BAG	1	G
2	5215096	PUSH BUTTON AIR ASSEMBLY	1	G
3	5505009	D4-12, HD/HDS-14 DRIVE UP RAMP PIN	2	D
4	5600406	HD/HDS-14 TOP PLATE WELDMENT	4	C
5	5216139	FLEX TUBE KIT, UP TO 2000mm	1	A
6	5700029	HD-SERIES FLEX TUBE BRACKET PLATE	1	F
7	5700032	TIRE STOP	2	D
8	5700033	HD-SERIES FLEX TUBE ANGLE	1	E
9	5700072	WHEEL CHOCK	2	B
10	5715003	POWER UNIT VIBRATION DAMPENERS	1	B
11	5595065	HDS/HDSO-14 CABLE ASSEMBLY Ø12 x 4100mm ST	1	E
12	5595066	HDS/HDSO-14 CABLE ASSEMBLY Ø12 x 5732mm ST	1	E
13	5595067	HDS-14X/14LSXE CABLE ASSEMBLY Ø12 x 10076mm ST	1	E
14	5595068	HDS-14X/14LSXE CABLE ASSEMBLY Ø12 x 11751mm ST	1	E
15	5570871	HYDRAULIC HOSE ASSEMBLY Ø6.4 x 4166mm	1	B
16	5570795	1/4" POLY-FLO TUBING	20000mm*	-
17	5575015	656A SERIES 1" BALL CASTER	60	-
18	5530456	AB 3/4" x 4 - 3/4"	16	-
19	5745050	SLIP PLATE LOCK PIN	4	A
20	5900162	HDS-14 ALIGNMENTS INSTALLATION MANUAL	1	-
21	5716629	HDS-14 CROSSTUBE COVER, PLASTIC	4	A
22	5210241	4 POST LIGHT DUTY CE PARTS BAG	1	A
23	5930195	ANTI-SLIP TAPE, 6" x 24ft	1	--

WHERE USED
HDS-14LSXE

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5260601

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	05/10/2013
CHECKED OR	05/09/2022

THIRD ANGLE PROJECTION



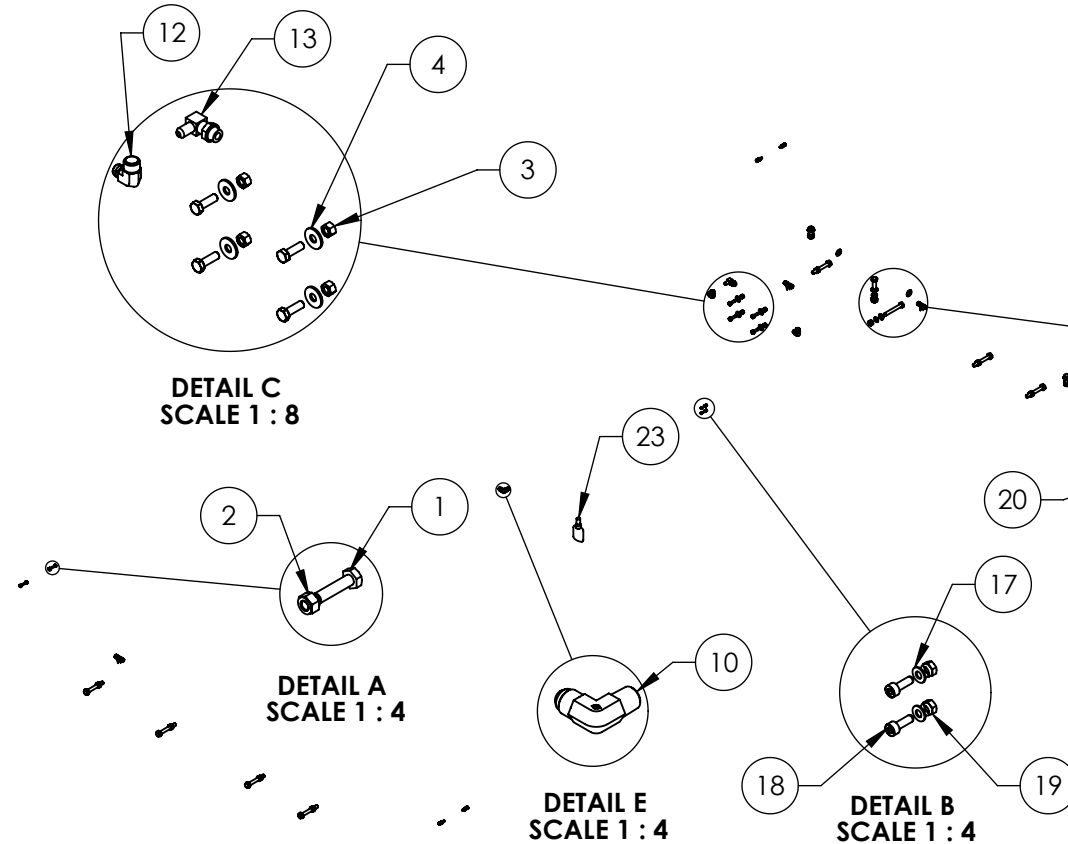
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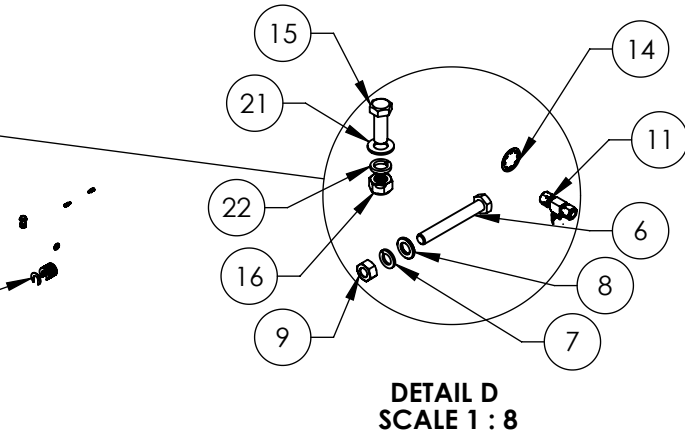
TITLE:
HDS-14LSXE PARTS BOX

SIZE DWG. NO. REV
A 5250195 N

SCALE: 1:35 SHEET 1 OF 1



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
E	REPLACED 5550004 WITH 5550089, 5550489 WITH 5550395, UPDATED NEXT ASSEMBLIES	10/29/2013	TM	00593
F	ADDED (4) 5530009, (4) 5545201, (4) 5545347, (4) 5535354, 5550025, 5550026, AND 5580012	11/25/2019	TM	01120
G	REMOVED 5550025 AND 5550026	08/18/2021	CA	01322



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5530756	HHB M6 x 1.0 x 25mm	8	-
2	5535357	NUT M6 x 1.0 NL	8	-
3	5535001	NUT M8 x 1.25 NL	4	-
4	5545340	WASHER M8 x24 FLAT	4	-
5	5530010	HHB M8 x 1.25 x 25mm ZPL	4	-
6	5530009	HHB M12 x 1.75 x 90 CL8.8	8	-
7	5545201	WASHER, M12 SPRING LOCK	8	-
8	5545347	WASHER, M12 FLAT WASHER	8	-
9	5535354	NUT, M12 x1.75	8	-
10	5550106	FTG ELB -04JIC x 3/8" NPT	1	-
11	5550395	FTG TEE -04 COMP x -04 COMP x -04 COMP	3	-
12	5550089	FTG ELB -04 COMP x -06 NPT	2	-
13	5550008	FTG ELB -04 JIC -06L ORB	1	-
14	5505032	ROTOR CLIP Ø18mm SS	4	-
15	5530107	HHB M14 x 2.0 x 40	4	-
16	5535107	NUT M14 x 2.0 NL	4	-
17	5545009	WASHER, M4 x 9mm FLAT	2	-
18	5530008	SHCS M4 x 0.7 x 12 BOC	2	-
19	5535010	NUT M4 X 0.7 NL	2	-
20	5545535	C WASHER SHIM FOR LIFTS	20	-
21	5545010	WASHER M14 x 28 FLAT	4	-
22	5545349	WASHER M14 x 22 SL	4	-
23	5580012	LIQUID PTFE THREAD SEALANT 50ml	1	-

WHERE USED
HD-14T
HDS-14 SERIES
D4-12 SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

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

NEXT ASSEMBLY
5250143
5250144
5250191
5250194
5250195
5250294
5250295

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NAME	DATE
DRAWN AC	08/08/2008
CHECKED OR	09/21/2021

THIRD ANGLE PROJECTION



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

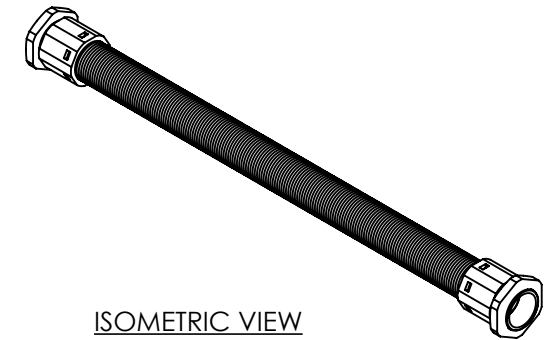
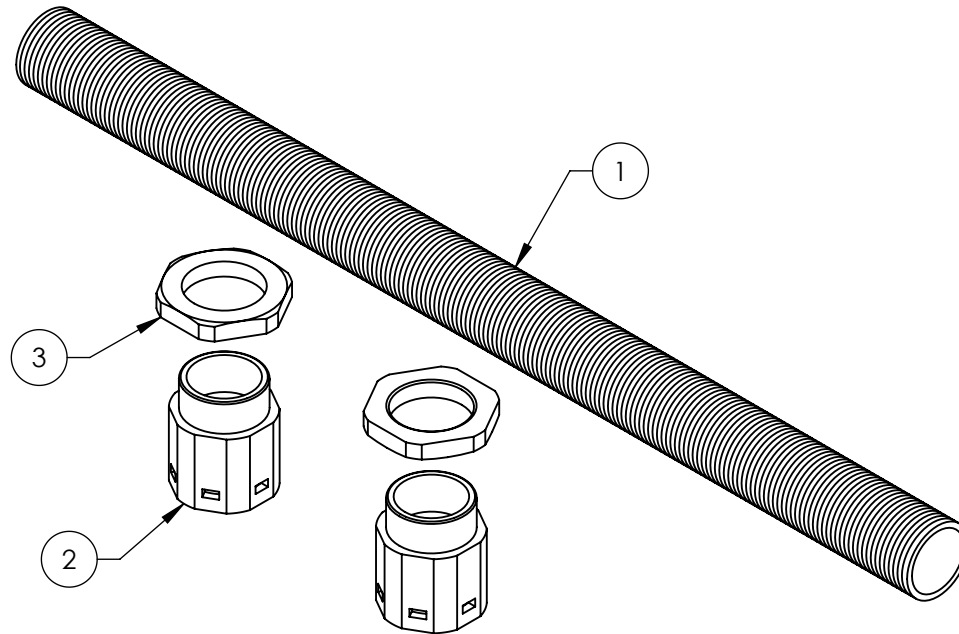
TITLE: D4-12, HD/HDS-14 PARTS BAG

SIZE DWG. NO.	REV
A 5174094	G

SCALE: 1:30

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

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

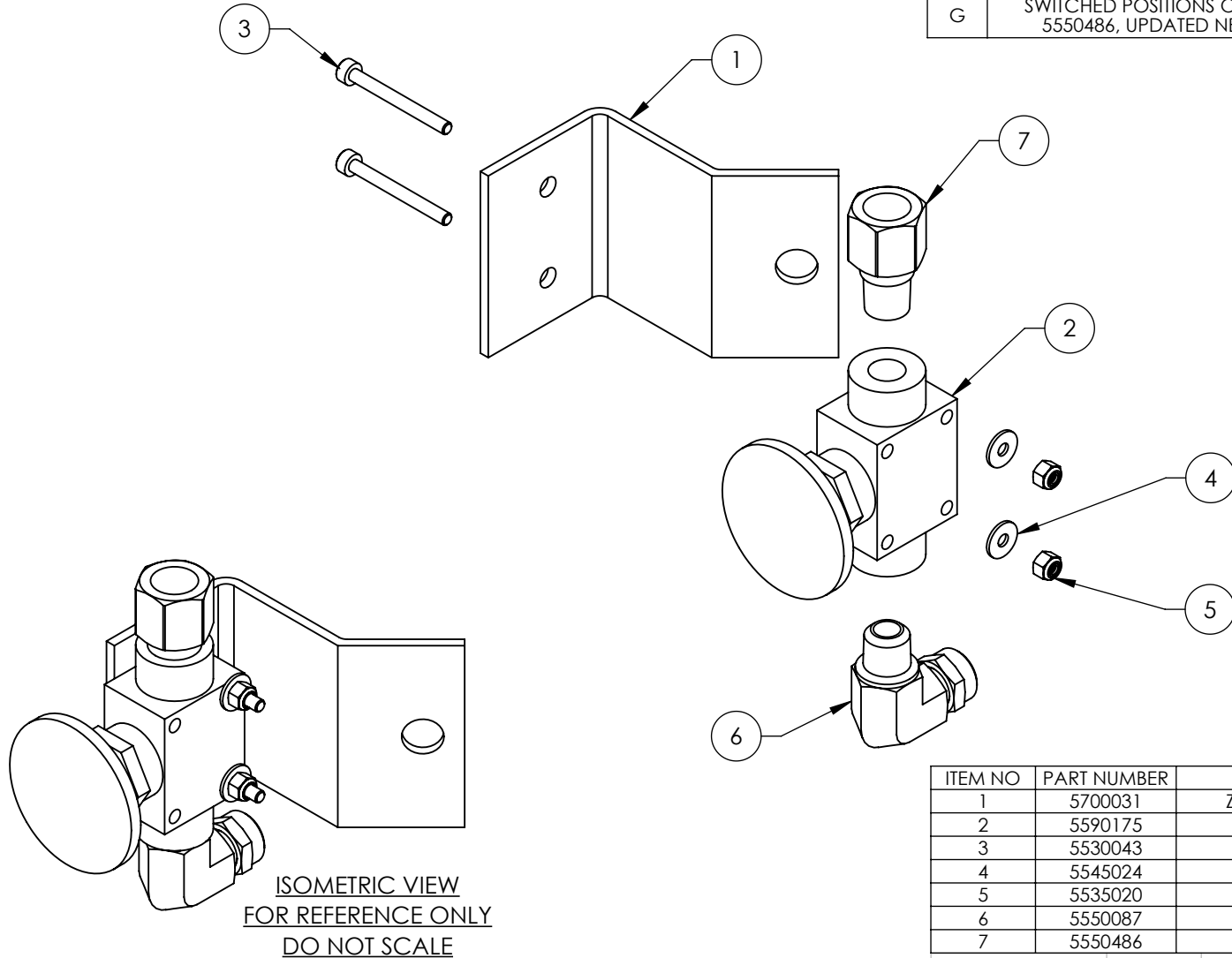


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PROHIBITED.

BP BendPak. 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	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

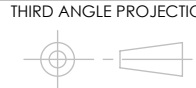


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5700031	ZERO ANGLE MOUNTING BRACKET	1	C
2	5590175	PUSH BUTTON AIR VALVE	1	-
3	5530043	SHCS M3 x 0.5 x 30	2	-
4	5545024	WASHER, M3 x 9mm FLAT	2	-
5	5535020	NUT M3 x 0.5, NL CL8	2	-
6	5550087	FTG ELB -04 COMP x -02 NPT	1	-
7	5550486	FTG NPL -02 NPT x -04 F NPT	1	-

DO NOT SCALE DRAWING

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

DIMENSIONS ARE IN MM



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NAME DATE

BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: PUSH BUTTON AIR ASSEMBLY

SIZE DWG. NO.	REV
A 5215096	G

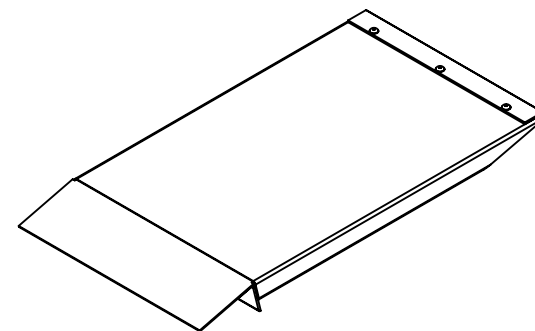
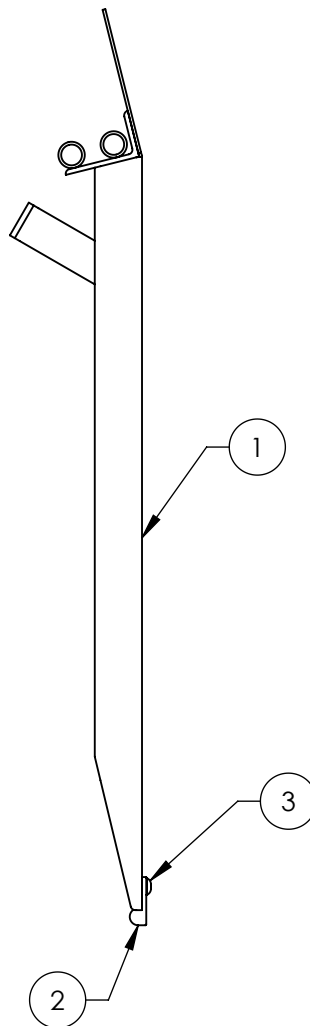
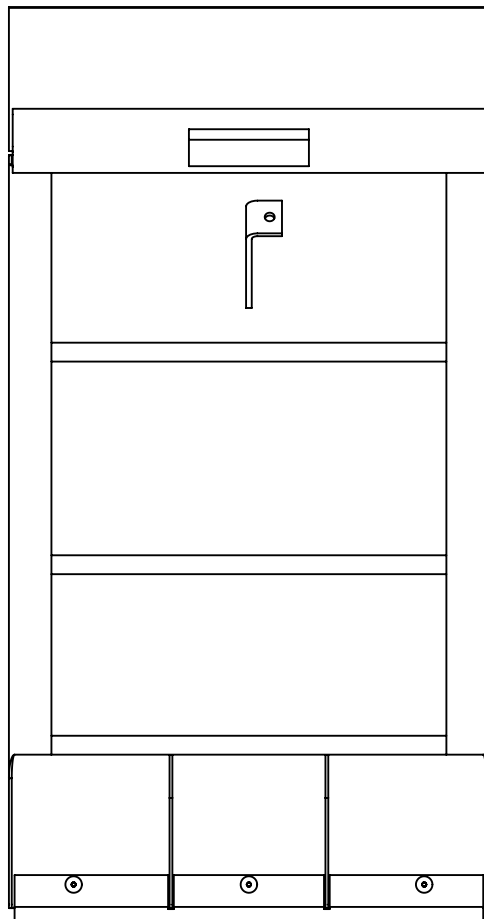
SCALE: 2:3

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



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
D4-12 SERIES
HD-14T
HDS-14 SERIES
HDSO-14 SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

- REFER TO MODEL FOR ADDITIONAL INFORMATION
- SEE COLORS & GRAPHICS FOR LABEL PLACEMENT
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
G	UPDATED BOM REVISION	07/30/2010	TM	00387
G-001	UPDATED NEXT ASSEMBLY	05/17/2011	TM	00456
G-002	UPDATED NEXT ASSEMBLY	10/28/2011	TM	00487
G-003	UPDATED NEXT ASSEMBLIES	05/16/2013	TM	00593
G-004	UPDATED NEXT ASSEMBLIES	08/13/2014	TM	00664
G-005	UPDATED NEXT ASSEMBLIES	09/26/2016	TM	00782
H	UPDATED BOM REVISION AND NEXT ASSEMBLIES	05/31/2018	TS	00951
H-001	UPDATED NEXT ASSEMBLY	08/30/2018	TM	00992
J	REPLACED 5716149 WITH 5716087, REPLACED 5530097 AND 5535357 WITH 5530465, UPDATED BOM REVISION	08/09/2022	TM	01436

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600138	HD/HDS/HDSO-14 DRIVE UP RAMP WELDMENT	1	G
2	5716087	HDS-14 APPROACH RAMP EDGE GUARD	1	A
3	5530465	BBSS M6 x 1.0 x 12mm	3	--

NEXT ASSEMBLY
5210743
5245081
5245082
5245083
5245084
5245085
5245095
5245096
5245416
5245417

DO NOT SCALE DRAWING

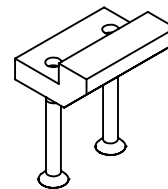
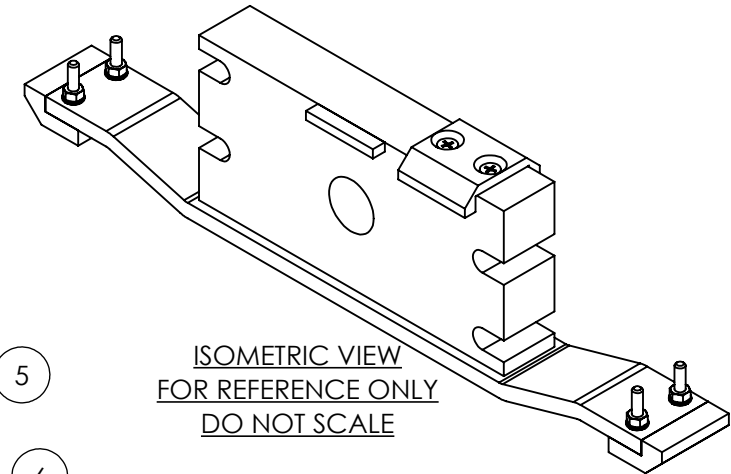
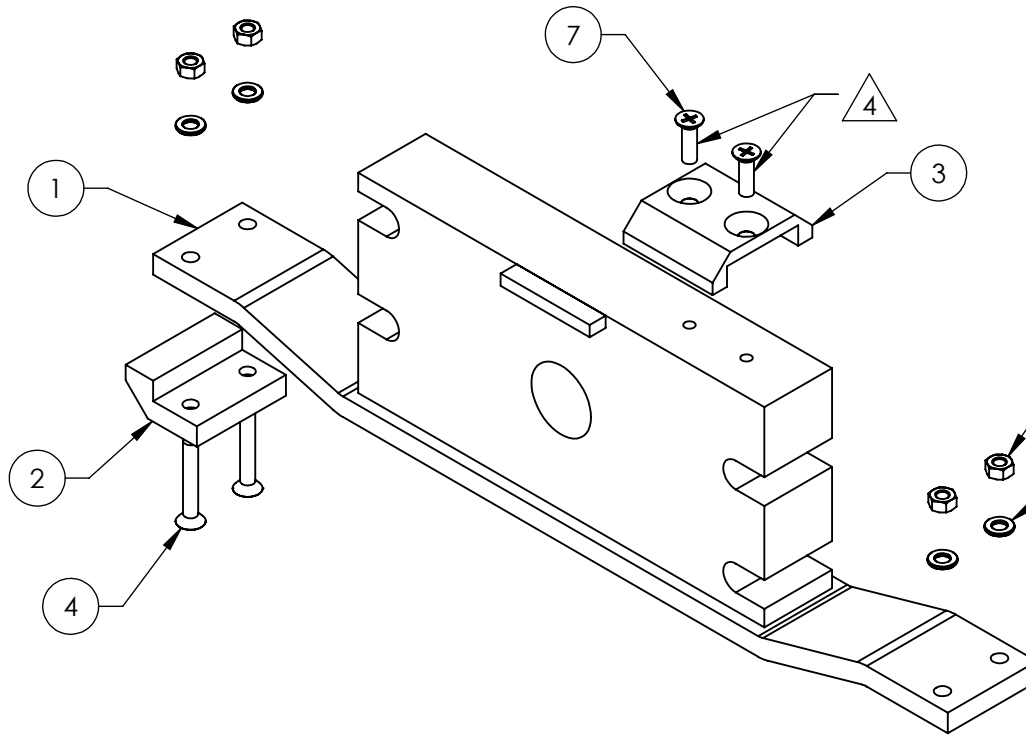
DIMENSIONS ARE IN MM



NAME	DATE
DRAWN TM	06/04/2008
CHECKED OR	08/16/2022
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: D4-12, HD/HDS/HDSO-14 DRIVE UP RAMP ASSEMBLY	
SIZE DWG. NO.	REV
A 5215104	J
SCALE: 1:8	
SHEET 1 OF 1	

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215572	02/24/2021	CA	01276



WHERE USED
HDS-14LSX
HDS-14LSXE
HDSO-14AX

NOTE: UNLESS OTHERWISE SPECIFIED.

1. REFER TO MODEL FOR ADDITIONAL INFORMATION
2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
3. ASSEMBLE ITEMS AS SHOWN
4. APPLY LOCTITE (BLUE) 242 AND STAKE THREADS

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601618	HDS/HDSO-14 ALIGNMENT CYLINDER FLANGE ARM WELDMENT	1	A
2	5716006	D4-12, HD/HDS/HDSO-14 CYLINDER FLANGE ARM SLIDE	2	F
3	5716176	HDS/HDSO-14LSX CYLINDER FLANGE ARM TOP SLIDE	1	B
4	5530247	FHPS M6 x 1 x 40	4	-
5	5535112	NUT M6 x 1.0	4	-
6	5545005	M6 FLAT WASHER	4	-
7	5530244	FHPS M6 x 1 x 20	2	-

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM



NEXT ASSEMBLY
5210261
5216019
5216020
5216021

NAME	DATE
DRAWN TM	12/07/2012
CHECKED OR	02/26/2021

THIRD ANGLE PROJECTION



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BendPak®	
1645 LEMONWOOD DR. SANTA PAULA, CA 93060	

TITLE: HDS/HDSO-14 ALIGNMENT CYLINDER FLANGE ARM ASSEMBLY

SIZE	DWG. NO.	REV
A	5216022	A

SCALE: 1:3

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:

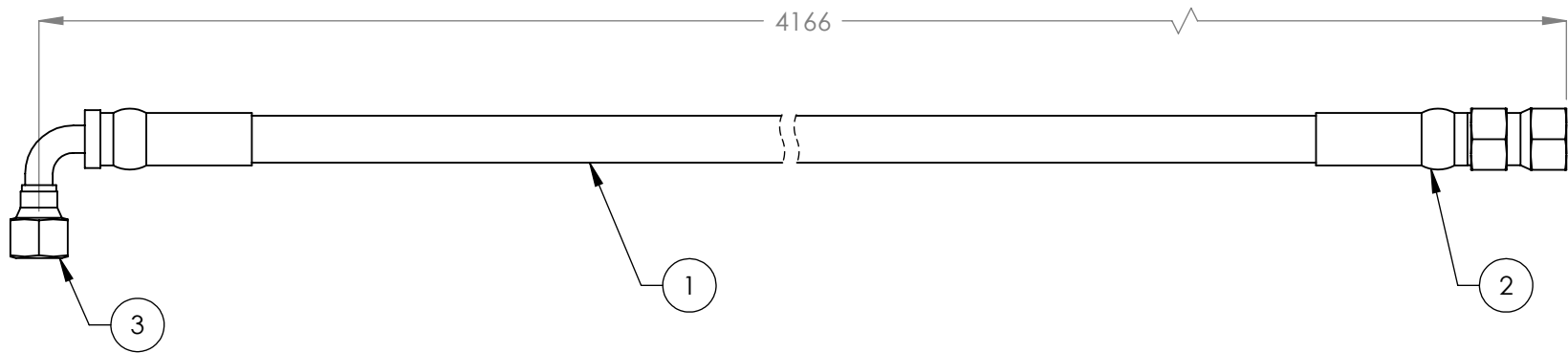
Xin Yurong
 Shandong Ningjin High Energy Hose Co., Ltd.
 Tel: +86 534-5421821
 No. 7, Taishan Rd., Industrial Park, Ningjin County, Shandong, China



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

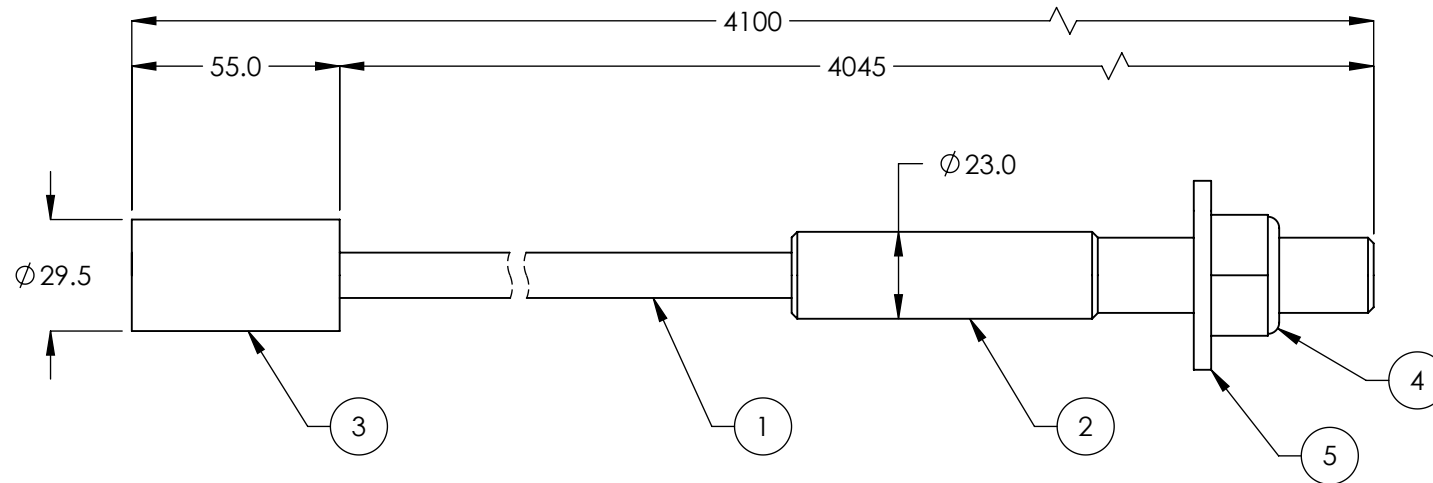
NOTE: UNLESS OTHERWISE SPECIFIED.

- 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	-

DO NOT SCALE DRAWING		NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		AC	07/15/2009	
CHECKED		TM	10/04/2014	
THIRD ANGLE PROJECTION				TITLE: HYDRAULIC HOSE ASSEMBLY Ø6.4 x 4166mm
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		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 5570871
NEXT ASSEMBLY 5250058 5250059 5250081 5250194 5250195 5250336		REV B		SCALE: 1:2 SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED TITLE TO DENOTE SINGLE THREADED END	06/09/2010	AC	00366
C-001	UPDATED NEXT ASSEMBLIES	05/17/2013	TM	00593
C-002	UPDATED NEXT ASSEMBLIES	09/26/2016	TM	00782
D	UPDATED BOM REVISION	12/28/2017	TM	00909
E	ADDED 5535011 AND 5545345	07/20/2020	TM	01174



ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5595001	CABLE, LIFTING Ø12	4015mm*	-
2	5746020	Ø12 THREADED CABLE CONNECTOR	1	D
3	5746019	Ø12 CABLE END CONNECTOR	1	F
4	5535011	NUT M22 x 2.5 NL	1	-
5	5545345	WASHER M22 x 50mm FLAT	1	-

WHERE USED
HDS-14 SERIES
HDSO-14 SERIES

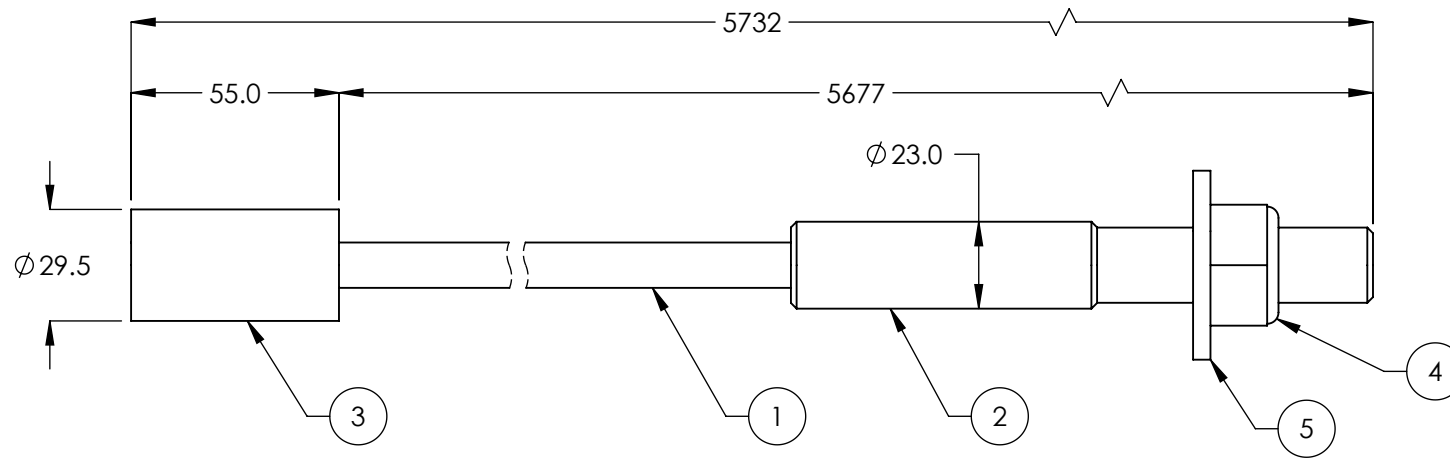
NOTE: UNLESS OTHERWISE SPECIFIED.

- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535011 WITH 5545345 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250058
5250059
5250143
5250144
5250194
5250195

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		GJZ	11/18/2008	
CHECKED				
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE: HDS/HDSO-14 CABLE ASSEMBLY Ø12 x 4100mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.				
		SIZE DWG. NO.		REV
		A 5595065		E
		SCALE: 1:2		SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED TITLE TO DENOTE SINGLE THREADED END	06/09/2010	AC	00366
C-001	UPDATED NEXT ASSEMBLIES	05/17/2013	TM	00593
C-002	UPDATED NEXT ASSEMBLIES	09/26/2016	TM	00782
D	UPDATED BOM REVISION	12/28/2017	TM	00909
E	ADDED 5535011 AND 5545345	07/20/2020	TM	01174



WHERE USED
HDS-14 SERIES
HDSO-14 SERIES

NOTE: UNLESS OTHERWISE SPECIFIED.

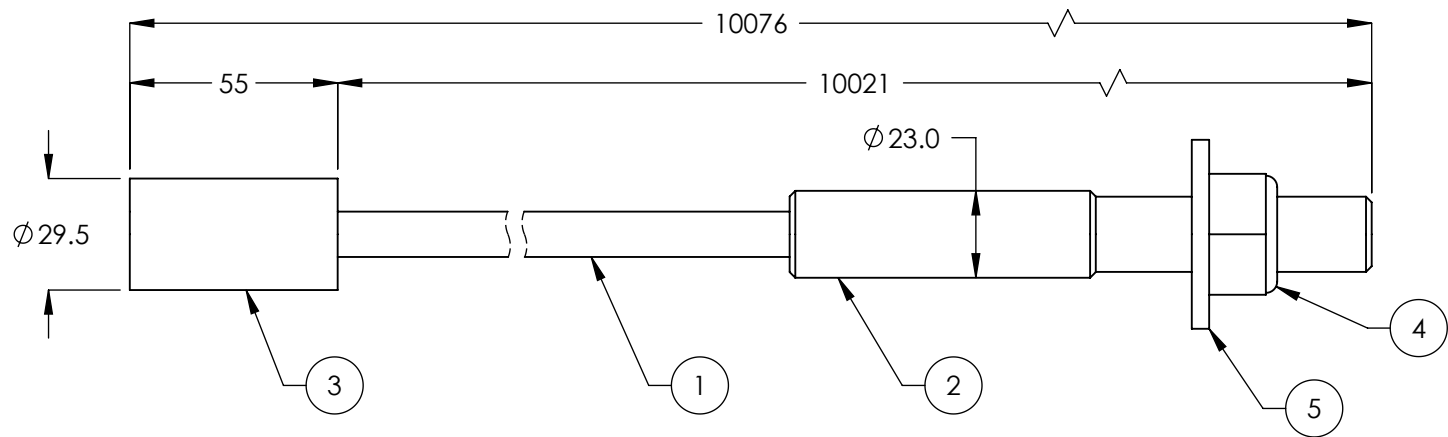
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535011 WITH 5545345 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250058
5250059
5250143
5250144
5250194
5250195

ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5595001	CABLE, LIFTING Ø12	5647mm*	-
2	5746020	Ø12 THREADED CABLE CONNECTOR	1	D
3	5746019	Ø12 CABLE END CONNECTOR	1	F
4	5535011	NUT M22 x 2.5 NL	1	-
5	5545345	WASHER M22 x 50mm FLAT	1	-

DO NOT SCALE DRAWING		NAME	DATE	 BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN		GJZ	11/18/2008	
CHECKED				
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		THIRD ANGLE PROJECTION		TITLE: HDS/HDSO-14 CABLE ASSEMBLY Ø12 x 5732mm ST
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED				
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		SIZE DWG. NO.		
		A 5595066		E
SCALE: 1:2				SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED TITLE TO DENOTE SINGLE THREADED END	06/09/2010	AC	00366
C-001	UPADTED NEXT ASSEMBLY	05/17/2013	TM	00593
D	WAS 10101 NOW 10076, WAS 10016 NOW 9991	08/31/2016	TM	00778
E	ADDED 5535011 AND 5545345	07/20/2020	TM	01174



WHERE USED
HDS-14X
HDS-14LSXE

NOTE: UNLESS OTHERWISE SPECIFIED.

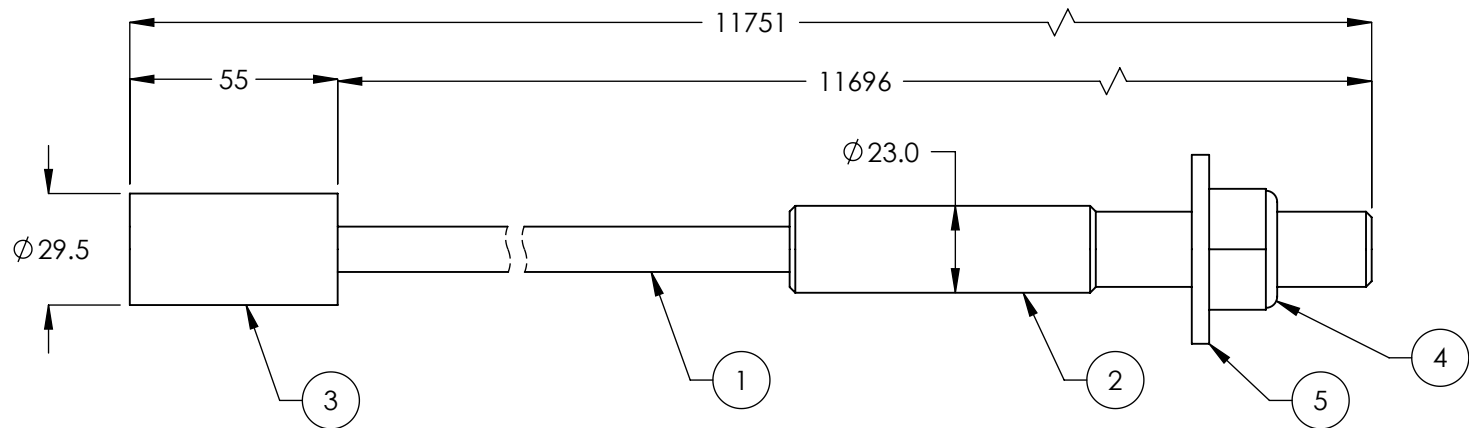
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535011 WITH 5545345 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250144
5250195

ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5595001	CABLE, LIFTING Ø12	9991mm*	-
2	5746020	Ø12 THREADED CABLE CONNECTOR	1	D
3	5746019	Ø12 CABLE END CONNECTOR	1	F
4	5535011	NUT M22 x 2.5 NL	1	-
5	5545345	WASHER M22 x 50mm FLAT	1	-

DO NOT SCALE DRAWING		NAME	DATE	 BendPak.			
		DRAWN	GJZ	11/18/2008	1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
		CHECKED					
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5	THIRD ANGLE PROJECTION			TITLE: HDS-14X/14LSXE CABLE ASSEMBLY Ø12 x 10076mm ST			
							
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.			SIZE	DWG. NO.	REV
					A	5595067	E
					SCALE: 1:2		SHEET 1 OF 1

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
C	UPDATED TITLE TO DENOTE SINGLE THREADED END	06/09/2010	AC	00366
C-001	UPDATED NEXT ASSEMBLIES	05/17/2013	TM	00593
D	WAS 11726 NOW 11751, WAS 11641 NOW 11556	08/31/2016	TM	00778
E	ADDED 5535011 AND 5545345	07/20/2020	TM	01174



ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV
1	5595001	CABLE, LIFTING Ø12	11556mm*	-
2	5746020	Ø12 THREADED CABLE CONNECTOR	1	D
3	5746019	Ø12 CABLE END CONNECTOR	1	F
4	5535011	NUT M22 x 2.5 NL	1	-
5	5545345	WASHER M22 x 50mm FLAT	1	-

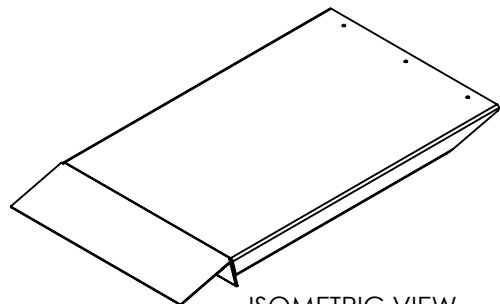
WHERE USED
HDS-14X
HDS-14LSXE

NOTE: UNLESS OTHERWISE SPECIFIED.

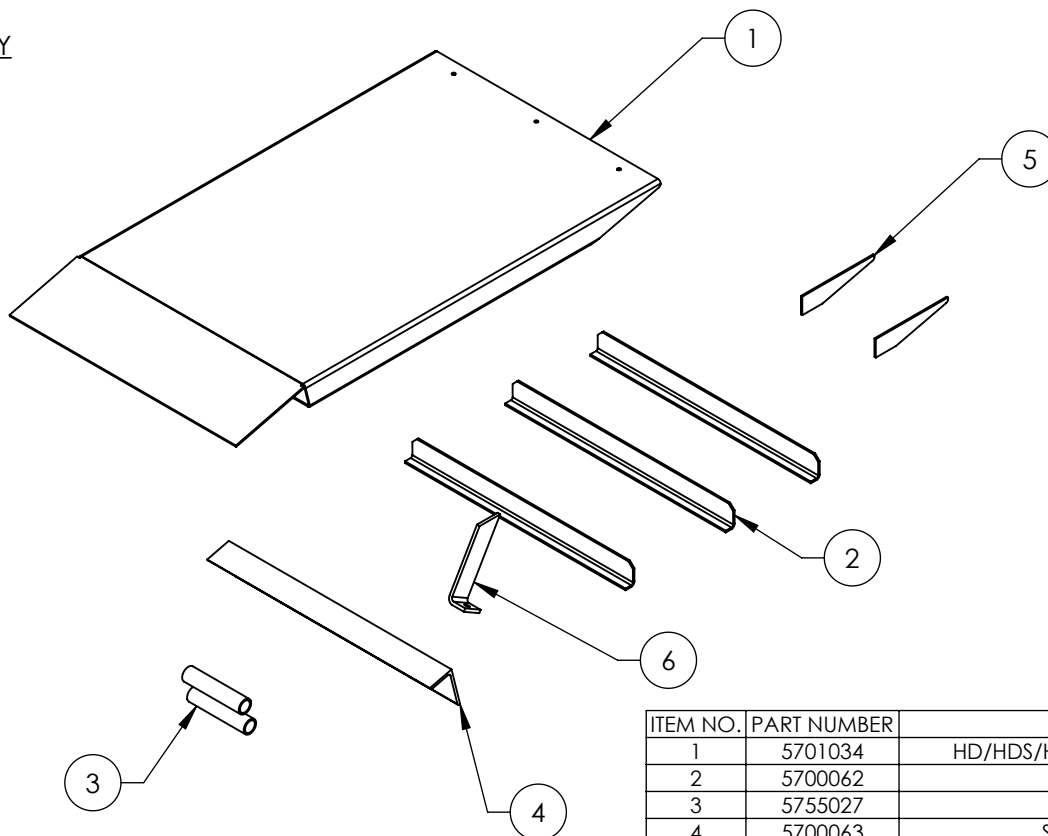
- FOR ITEM 1 SPECIFICATIONS REFER TO PART SPECIFICATION FORM
- LENGTH SHOWN IS AFTER SWAGING
- ITEM 1 QTY FOR REFERENCE ONLY
- THREAD 5535011 WITH 5545345 ONTO CABLES FOR SHIPMENT

NEXT ASSEMBLY
5250144
5250195

DO NOT SCALE DRAWING		NAME	DATE	 BendPak.	
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	GJZ	11/18/2008	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
		CHECKED			
		THIRD ANGLE PROJECTION			TITLE:
				HDS-14X/14LSXE CABLE ASSEMBLY Ø12 x 11751mm 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 5595068			REV E
		SCALE: 1:2			SHEET 1 OF 1



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
F	UPDATED BOM REVISION	07/30/2010	TM	00387
F-001	CHANGED PAINT COLOR FROM BLUE TO YELLOW AND ADDED PAINT SPEC NUMBER	12/08/2010	TM	00427
F-002	CHANGE PAINT SPEC FROM 583-2T TO RAL-1018	01/04/2017	TS	00798
F-003	ADDED GLOSS NOTE TO PAINT	02/05/2020	CA	01120
G	WAS 128 NOW 162, WAS 38 NOW 167 2PL, 5755027 WAS 50 NOW 46, ADDED 18.0 DISTANCE, REMOVED ALUMINUM OXIDE GRIT, UPDATED BOM REVISION	08/04/2022	TM	01436

WHERE USED
HD-14T
HDS-14 SERIES
HDSO-14 SERIES

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 BENDPAK YELLOW (RAL-1018) 20% GLOSS

NEXT ASSEMBLY
5215104

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REV
1	5701034	HD/HDS/HDSO-14 DRIVE UP RAMP	1	E
2	5700062	RAMP SUPPORT	3	C
3	5755027	RAMP HINGE	2	C
4	5700063	SUPPORT ANGLE	1	D
5	5736083	DRIVE UP RAMP END SUPPORT	2	F
6	5730012	RAMP STOP	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 JR	04/30/2008
CHECKED OR	08/16/2022

THIRD ANGLE PROJECTION



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BendPak.

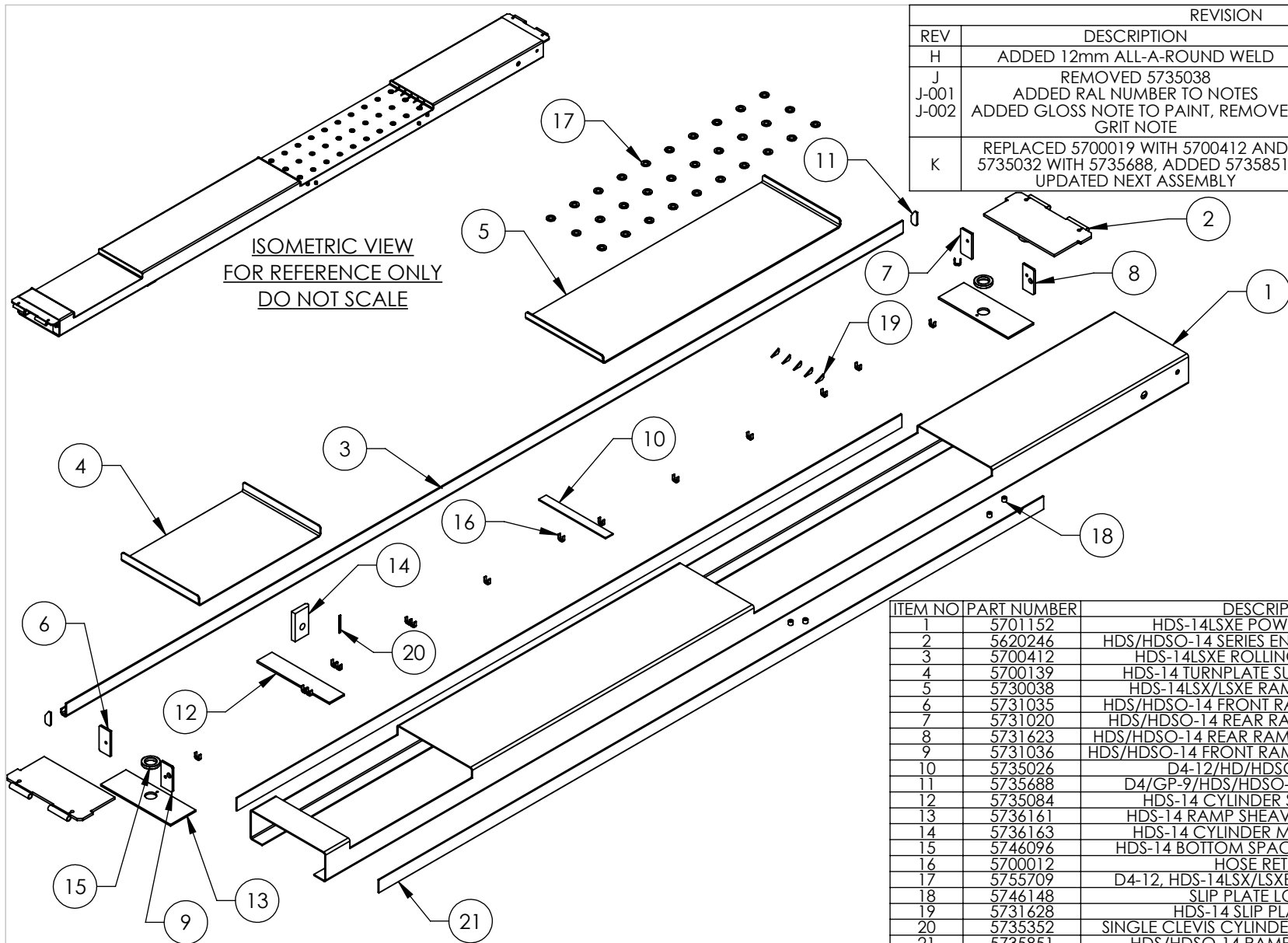
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
HD/HDS/HDSO-14 DRIVE
UP RAMP WELDMENT

SIZE DWG. NO. REV
A 5600138 G

SCALE: 1:12

SHEET 1 OF 2



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
H	ADDED 12mm ALL-A-ROUND WELD	12/8/2015	JM	00724
J	REMOVED 5735038	03/25/2016	TM	00741
J-001	ADDED RAL NUMBER TO NOTES	01/05/2017	TS	00798
J-002	ADDED GLOSS NOTE TO PAINT, REMOVED GRIT NOTE	02/04/2020	CA	01120
K	REPLACED 5700019 WITH 5700412 AND 5735032 WITH 5735688, ADDED 5735851, UPDATED NEXT ASSEMBLY	02/24/2021	CA	01276

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701152	HDS-14LSXE POWER SIDE RAMP	1	B
2	5620246	HDS/HDSO-14 SERIES END PLATE WELDMENT	2	B
3	5700412	HDS-14LSXE ROLLING BRIDGE BEAM	1	A
4	5700139	HDS-14 TURNPLATE SUPPORT CHANNEL	1	B
5	5730038	HDS-14LSX/LSXE RAMP CASTER PLATE	1	A
6	5731035	HDS/HDSO-14 FRONT RAMP SUPPORT PLATE	1	A
7	5731020	HDS/HDSO-14 REAR RAMP SUPPORT PLATE	1	A
8	5731623	HDS/HDSO-14 REAR RAMP AIR SUPPORT PLATE	1	A
9	5731036	HDS/HDSO-14 FRONT RAMP AIR SUPPORT PLATE	1	A
10	5735026	D4-12/HD/HDSO-14 TIE BAR	1	E
11	5735688	D4/GP-9/HDS/HDSO-14 RAIL END CAP	2	A
12	5735084	HDS-14 CYLINDER SUPPORT PLATE	1	A
13	5736161	HDS-14 RAMP SHEAVE BOTTOM PLATE	2	B
14	5736163	HDS-14 CYLINDER MOUNTING PLATE	1	A
15	5746096	HDS-14 BOTTOM SPACER, RAMP SHEAVE	2	A
16	5700012	HOSE RETAINER	16	B
17	5755709	D4-12, HDS-14LSX/LSXE CASTER RETAINER	30	A
18	5746148	SLIP PLATE LOCK TUBE	4	A
19	5731628	HDS-14 SLIP PLATE GUSSET	5	A
20	5735352	SINGLE CLEVIS CYLINDER ALIGNMENT PLATE	1	A
21	5735851	HDS/HDSO-14 RAMP SUPPORT STRAP	2	A

WHERE USED
HDS-14LSXE

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

NEXT ASSEMBLY
5216020

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 GJZ 03/12/2009
CHECKED OR 03/01/2021

THIRD ANGLE PROJECTION



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BendPak.

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

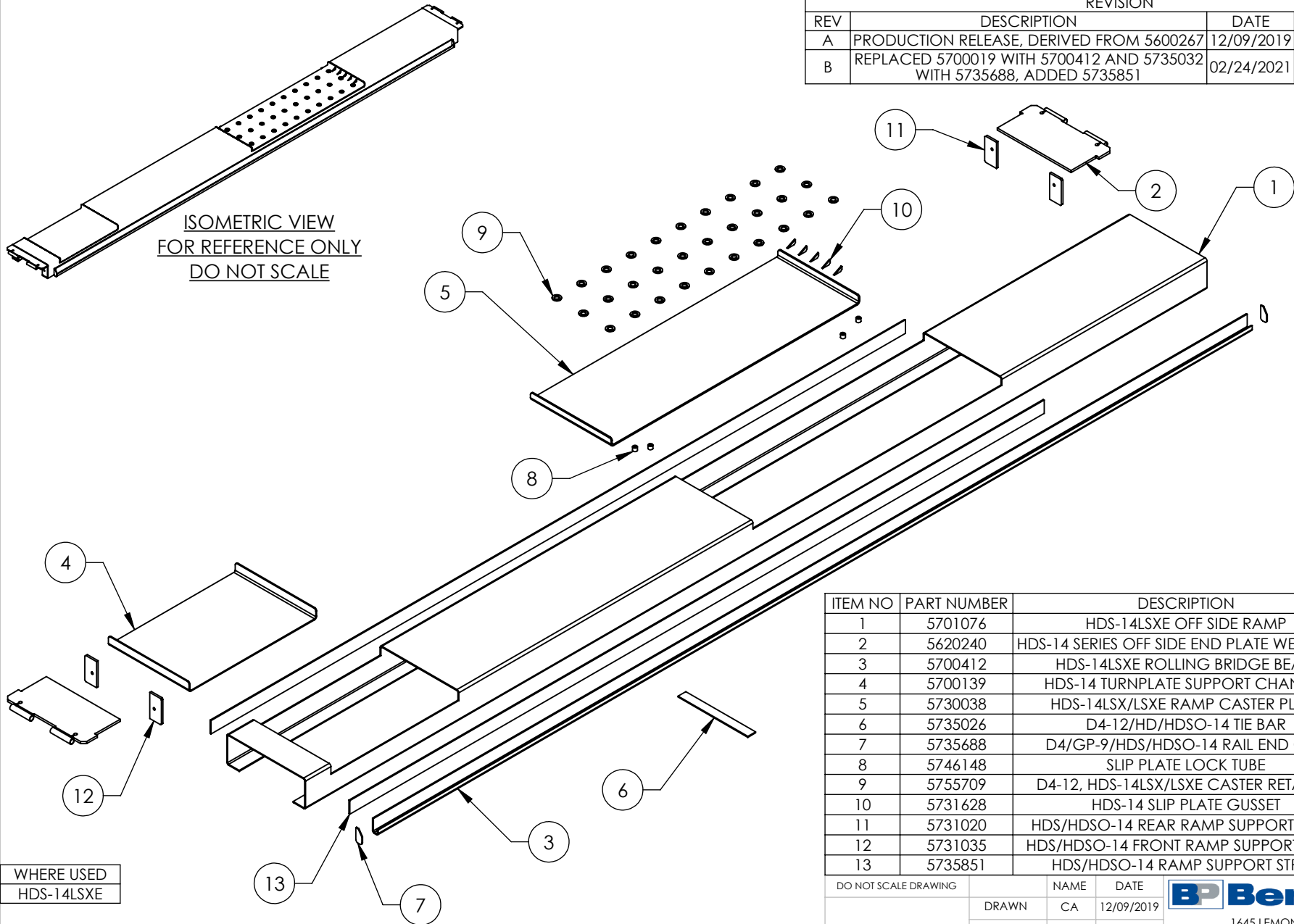
TITLE:
HDS-14LSXE POWER SIDE
RAMP WELDMENT

SIZE DWG. NO. REV
A 5600259 K

SCALE: 1:28

SHEET 1 OF 4

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600267	12/09/2019	CA	01120
B	REPLACED 5700019 WITH 5700412 AND 5735032 WITH 5735688, ADDED 5735851	02/24/2021	CA	01276



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5701076	HDS-14LSXE OFF SIDE RAMP	1	B
2	5620240	HDS-14 SERIES OFF SIDE END PLATE WELDMENT	2	B
3	5700412	HDS-14LSXE ROLLING BRIDGE BEAM	1	A
4	5700139	HDS-14 TURNPLATE SUPPORT CHANNEL	1	B
5	5730038	HDS-14LSX/LSXE RAMP CASTER PLATE	1	A
6	5735026	D4-12/HD/HDSO-14 TIE BAR	1	E
7	5735688	D4/GP-9/HDS/HDSO-14 RAIL END CAP	2	A
8	5746148	SLIP PLATE LOCK TUBE	4	A
9	5755709	D4-12, HDS-14LSX/LSXE CASTER RETAINER	30	A
10	5731628	HDS-14 SLIP PLATE GUSSET	5	A
11	5731020	HDS/HDSO-14 REAR RAMP SUPPORT PLATE	2	A
12	5731035	HDS/HDSO-14 FRONT RAMP SUPPORT PLATE	2	A
13	5735851	HDS/HDSO-14 RAMP SUPPORT STRAP	2	A

WHERE USED
HDS-14LSXE

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
5215888

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
CA 12/09/2019
CHECKED
OR 03/01/2021
THIRD ANGLE PROJECTION



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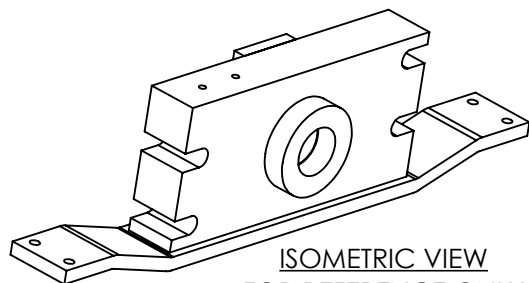
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: HDS-14LSXE OFF SIDE
RAMP WELDMENT

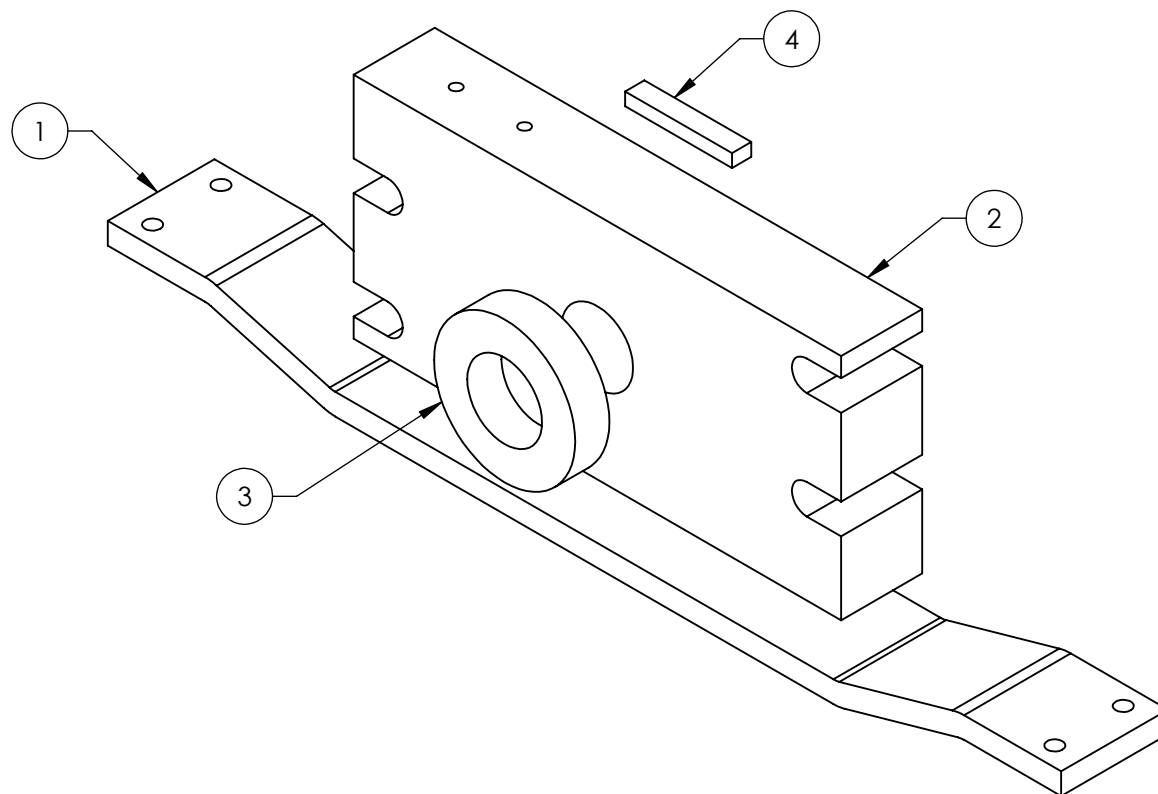
SIZE DWG. NO. REV
A 5601439 B

SCALE: 1:25

SHEET 1 OF 3



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600720	02/24/2021	CA	01276

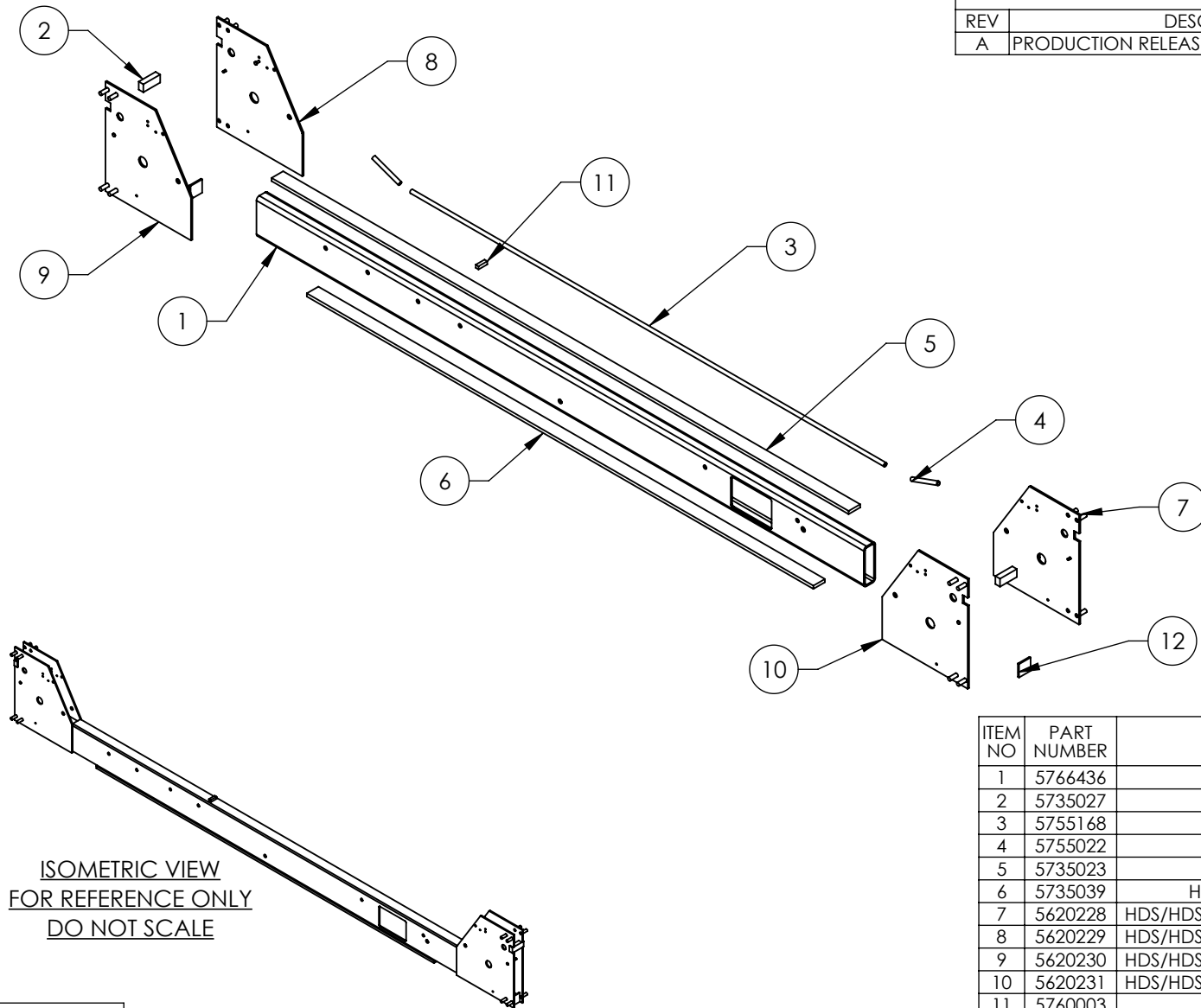
WHERE USED
HDS-14SLX
HDS-14SLXE
HDSO-14AX

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	5701788	HDS/HDSO-14 ALIGNMENT CYLINDER FLANGE ARM	1	A
2	5736539	HDS/HDSO-14SX CABLE RETAINER BLOCK	1	B
3	5745317	HD-14 SERIES CYLINDER FLANGE ARM SPACER	1	A
4	5735289	D4-12, HD/HDS-14 CYLINDER FLANGE ARM SPACER	1	A

DO NOT SCALE DRAWING		NAME		DATE		 BendPak			
DIMENSIONS ARE IN MM TOLERANCES: 0. = ±1.5 0.0 = ±0.5		DRAWN		CA		02/24/2021			
		CHECKED		OR		02/26/2021			
		THIRD ANGLE PROJECTION						TITLE: HDS/HDSO-14 ALIGNMENT CYLINDER FLANGE ARM WELDMENT	
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.							
Y		A		SIZE		DWG. NO.		REV	
						5601618		A	
						SCALE: 1:2		SHEET 1 OF 2	



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HDS-14 SERIES

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	PRODUCTION RELEASE, DERIVED FROM 5600276	04/28/2022	TM	01414

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766436	HDS-14 CROSSTUBE, LARGE WINDOW	1	A
2	5735027	CROSSTUBE SAFETY BLOCK	2	B
3	5755168	AIR LINE TROUGH Ø13.5 x Ø9.5 x 2050	1	A
4	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
5	5735023	HD-14 SERIES TOP CROSS TUBE STRAP	1	D
6	5735039	HD/HDSO-14 BOTTOM CROSS TUBE STRAP	1	D
7	5620228	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #1	1	K
8	5620229	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #2	1	J
9	5620230	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #3	1	H
10	5620231	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #4	1	J
11	5760003	D4-12, HD-12/14 RAMP STOP	1	C
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 04/28/2022

CHECKED

THIRD ANGLE PROJECTION



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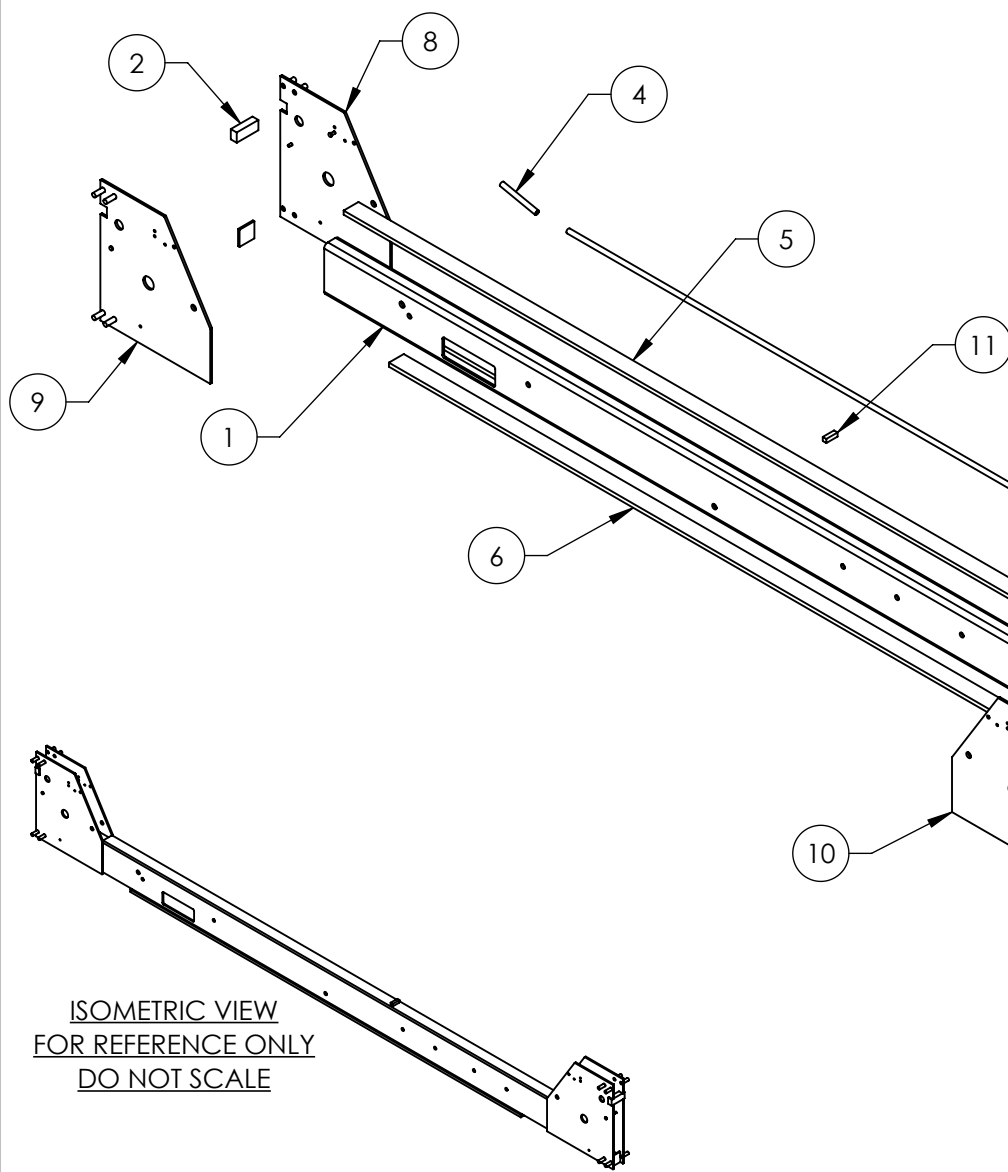
BendPak.
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: HDS-14 CROSSTUBE
WELDMENT, LARGE WINDOW

SIZE DWG. NO. REV
A 5601814 A

SCALE: 1:20 SHEET 1 OF 3

NEXT ASSEMBLY
5216147



ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE

WHERE USED
HDS-14 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 GRAY (RAL-7024) 20% GLOSS

NEXT ASSEMBLY
5216148

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5600923	05/02/2023	TM	01414

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5766433	HDS-14 CROSSTUBE, SMALL WINDOW	1	A
2	5735027	CROSSTUBE SAFETY BLOCK	2	B
3	5755168	AIR LINE TROUGH Ø13.5 x Ø9.5 x 2050	1	A
4	5755022	AIR LINE TROUGH Ø13.5 x Ø9.5 x 121	2	B
5	5735023	HD-14 SERIES TOP CROSS TUBE STRAP	1	D
6	5735039	HD/HDSO-14 BOTTOM CROSS TUBE STRAP	1	D
7	5620228	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #1	1	K
8	5620229	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #2	1	J
9	5620230	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #3	1	H
10	5620231	HDS/HDSO-14 CROSSTUBE END PLATE SUBWELDMENT #4	1	J
11	5760003	D4-12, HD-12/14 RAMP STOP	1	C
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	05/02/2022
CHECKED OR	06/06/2022

THIRD ANGLE PROJECTION



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PROHIBITED.



TITLE:
HDS-14 CROSSTUBE
WELDMENT, SMALL WINDOW

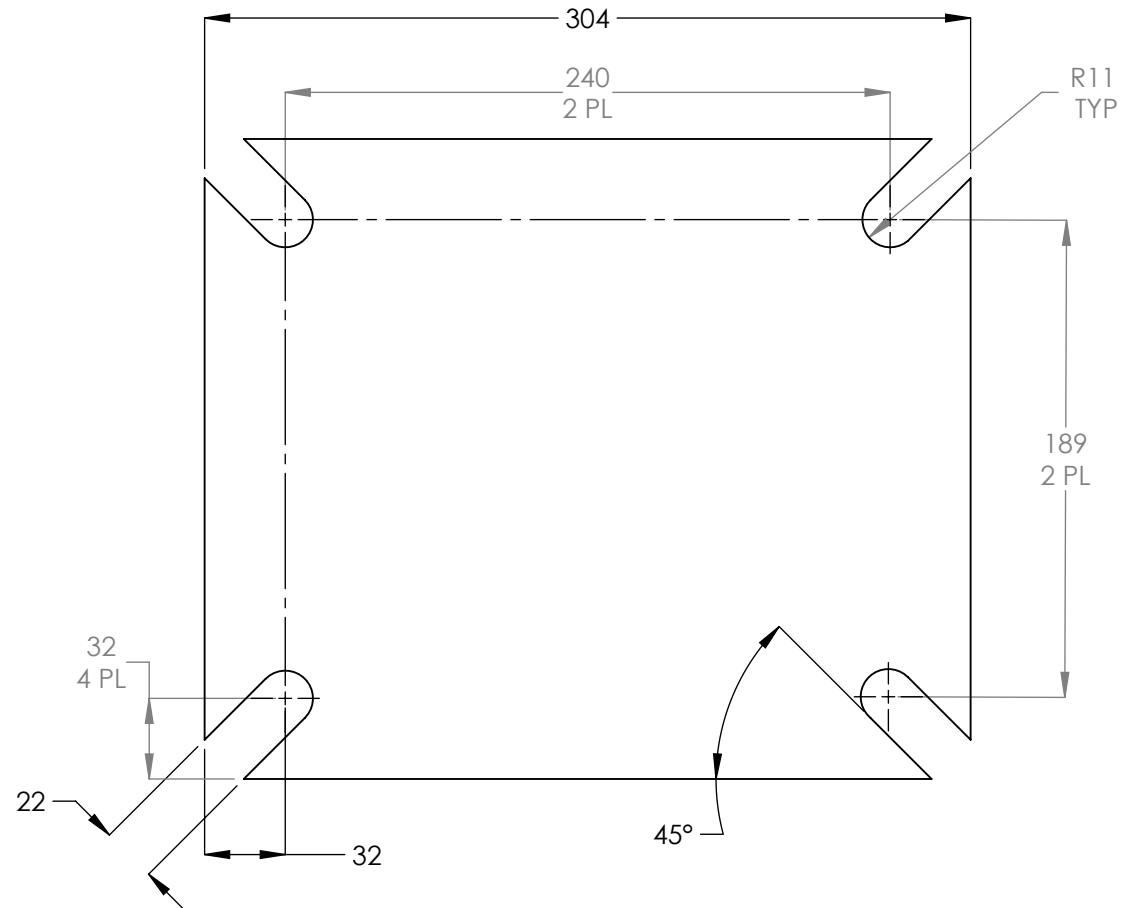
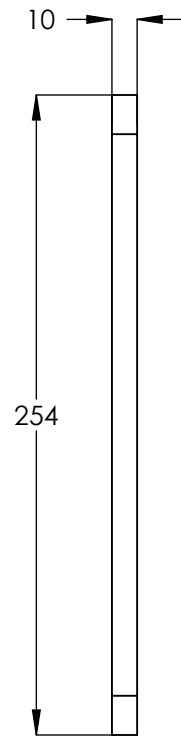
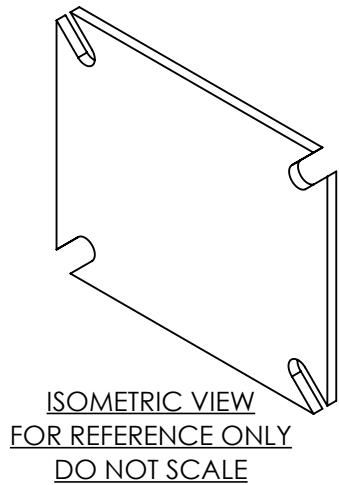
SIZE DWG. NO. REV

A 5601826 A

SCALE: 1:18

SHEET 1 OF 3

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 01/20/2017	
SURFACE FINISH 1.6 ISO Ra µm FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED		CHECKED	CA 04/24/2018	
THIRD ANGLE PROJECTION				TITLE: 4 POST BASE PLATE
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		SIZE	DWG. NO. A 5731045	REV A
		SCALE: 1:3		SHEET 1 OF 1

PART SPECIFICATION FORM

BENDPAK Number:	5900162
MRP Description:	HDS-14 ALIGNMENTS INSTALLATION MANUAL
Date:	03/30/2020
ECO :	---

1. Engineering Specification

Application:

INSTALLATION MANUAL

Detailed Description:



1645 Lemonwood Dr.
Santa Paula, CA 93060 USA
Toll Free: (800) 253-2283
Tel: (805) 933-9970
bendpak.com

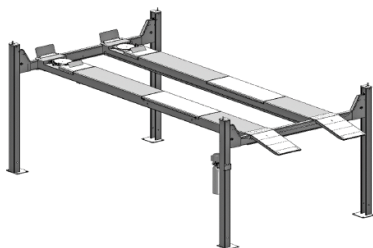
Four-Post Alignment Lifts

Installation and Operation Manual

Manual Revision F4 — March 2020 — Manual P/N 5900162

Models:

- HDS-14LSX
- HDS-14LSXE



Model HDS-14LSXE shown.

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



DANGER

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

Print Settings for BendPak Manuals

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

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

2. Vendor Information

Approved Vendor	Vendor Part #	Contact #	Preferred Vendor
1)			

4 Post Lifts Product Decal Positioning



CLEAR ADHESIVE PET DOES NOT PRINT YELLOW.

Total of 6

PN 5905311

BPK Post Branding Decal-Large.pdf:

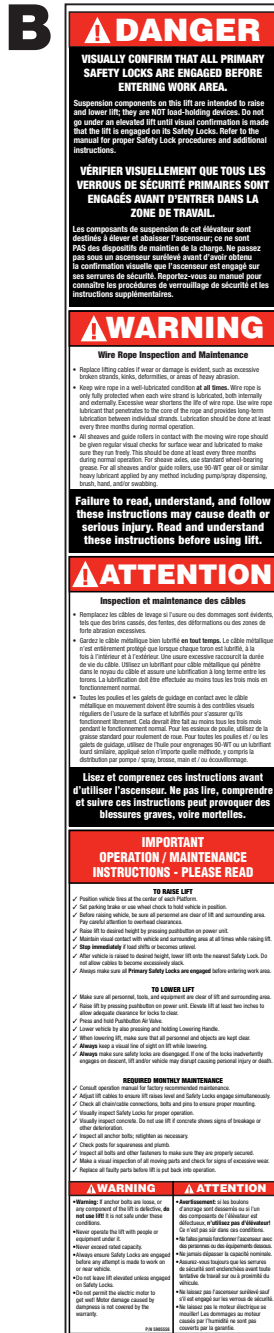
Size: 4.25"W x 38"H

Material: 4 Mil Clear Adhesive PET

Finish: Matte Overlamine (No gloss)

Print Process: Silk Screen, 85 line-screen
(Yellow color in file represents what should be clear PET material and SHOULD NOT print as Yellow ink. White area in file represents Opaque White ink.)

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



PN 5905556

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

Size: 4"W x 24"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

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

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



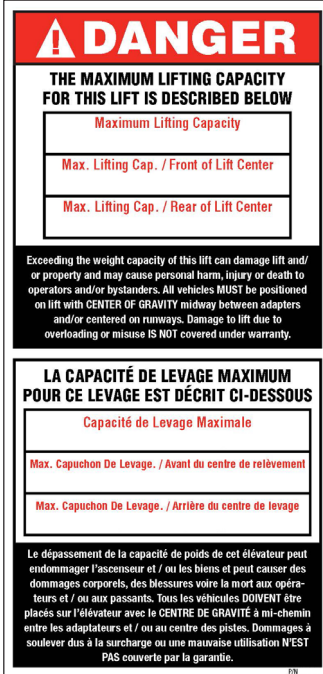
PN 5905103

ALI_4_Post_labels.pdf:
(Order Labels from ALI)

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

***D**



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

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

Size: 4"W x 8.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

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

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

***E**



***NRTL_Lifting_Cap_ENG-FRE_.pdf:**

Size: 4.5"W x 3.25"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

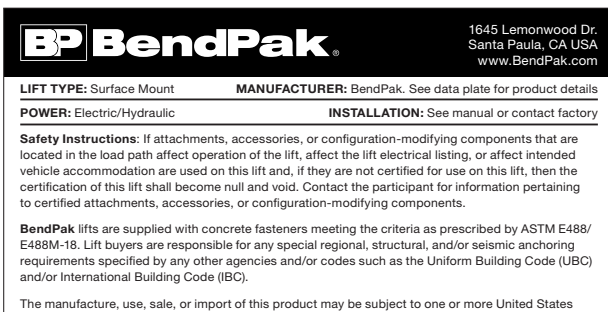
Print Process: Offset Lithography - 200 line-screen or 300 p.p.i. for digital

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

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

***DEPENDS ON LIFT
 MODEL AND CAPACITY**

F



Product_Data_Label_5905940-New.pdf: PN 5905940

Size: 4.5"W x 2.3"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

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

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

G



ALI_Notice_Label.jpg

PN 5905377

Size: 3"W x 1.75"H

(Order Label from ALI)

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

H



Slipper_When_Wet_Label-5905138.pdf: PN 5905138

Size: 4.5"W x 2.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

Print Process: Offset Lithography - 200 line-screen or

300 p.p.i. for digital

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

I



ALI Gold Label - MET C-US PN 5905654

****FOR ALI APPROVED LIFTS ONLY**

J

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

PN 5905953

2017_Serial_Tag-D.jpg:

Size: 3"W x 3"H

Material: 2 Mil. Matte Silver Polyester (Flex-PSE)

Print using thermal transfer printer with resin ribbon

Ink: 1 Color-Black

CE APPROVED LIFTS ONLY

K

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

PN 5905952

2017_Serial_Tag-C.jpg:

Size: 3"W x 3"H

Material: 2 Mil. Matte Silver Polyester (Flex-PSE)

Print using thermal transfer printer with resin ribbon

Ink: 1 Color-Black

NON-CE APPROVED LIFTS ONLY

IMPORTANT: Please use materials as instructed

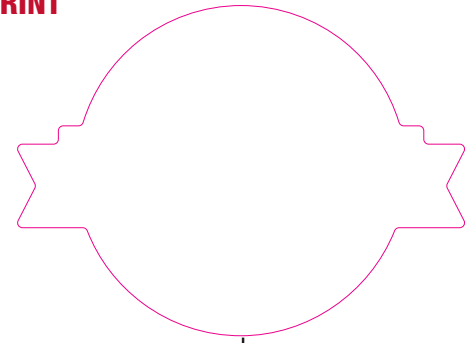
4 Post Lifts Product Decal Positioning

L



GRAY DOES NOT PRINT

PN 5906044



DIE-CUT LINE
DOES NOT PRINT

American_Owned_50_Years_Logo.pdf:

Trim: 4"W x 3"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No Gloss)

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

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

M

CALIFORNIA PROPOSITION 65



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

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

PN 5905775

Prop_65_Label.pdf:

Size: 1.5"W x 1.5"H

Material: 4 Mil. Permanent White Adhesive Vinyl

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

Finish: Matte Overlamine (No gloss)

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

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

PN 5905775

IMPORTANT: Please use materials as instructed

4 Post Lifts Product Decal Positioning

**SEE NEXT PAGE
FOR LABEL
PLACEMENT HEIGHT**

****FOR ALL APPROVED
LIFTS ONLY**

M, E, C

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

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

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

B
Side of Post

L

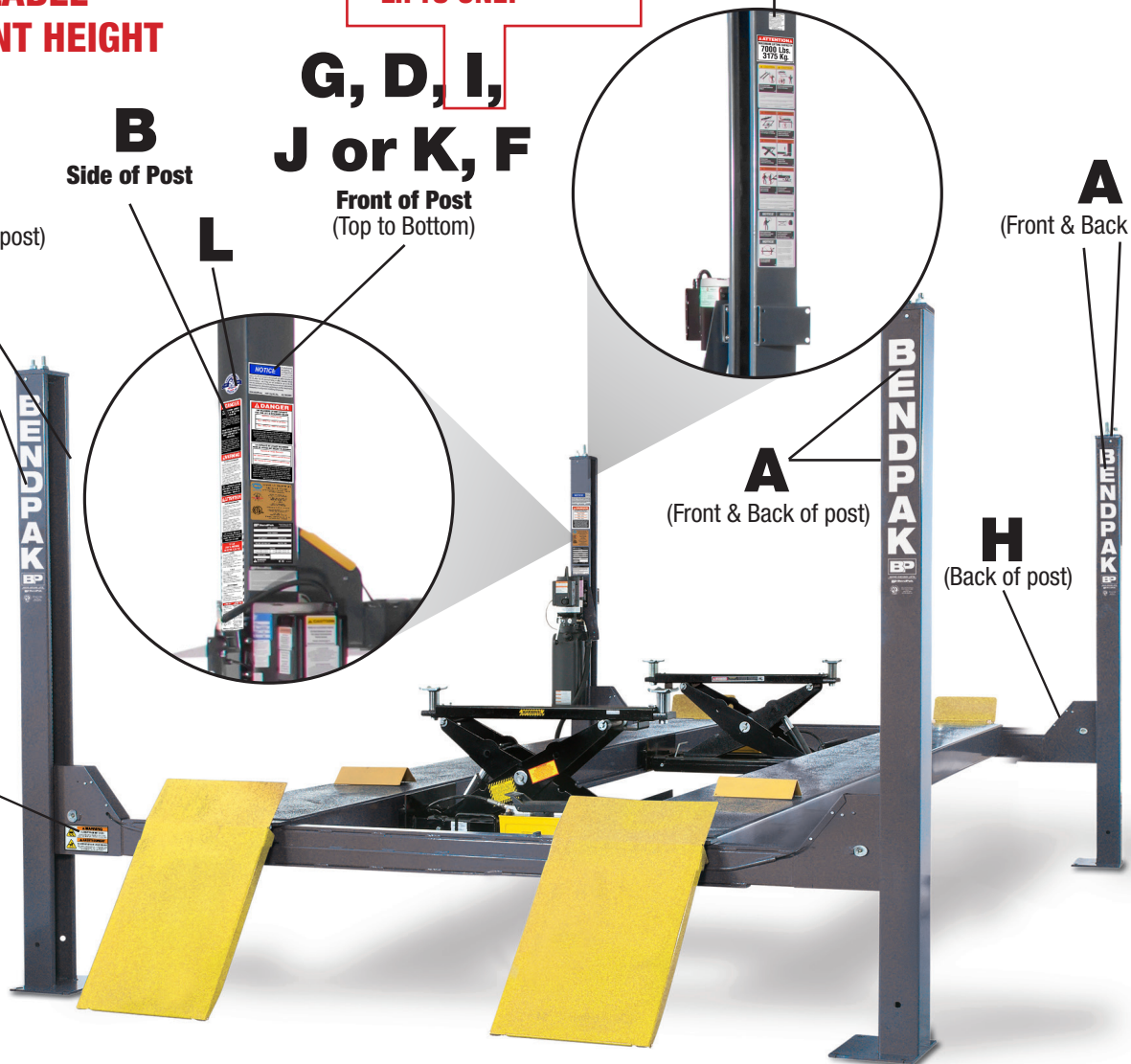
A
(Front & Back of post)

A
(Front & Back of post)

A
(Front & Back of post)

H
(Back of post)

H
(Also on other side of lift)



4 Post Lifts Product Decal Positioning

Views of Powerside Post

BACK OF POST

SIDE OF POST

FRONT OF POST

