



Spreader-Bar



Spreader Bar shown with Z-bars and Adjustable Collars

Parts ID Manual

Inventory ID: SB-73525

Revision: B

DOC-0022

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Scope of Manual:

This manual contains procedures for safety, general unpacking, set-up, and operation of your DEMTECH Services, Inc. Spreader-Bar.

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Notice

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DEMTECH Services, Inc. assumes no responsibility for any errors that may appear in this manual.

Manual Number: SB- PARTS ID MANUAL, Revision: B

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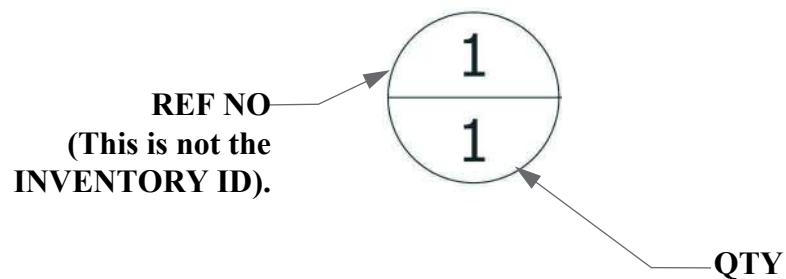
Web Site: www.demtech.com

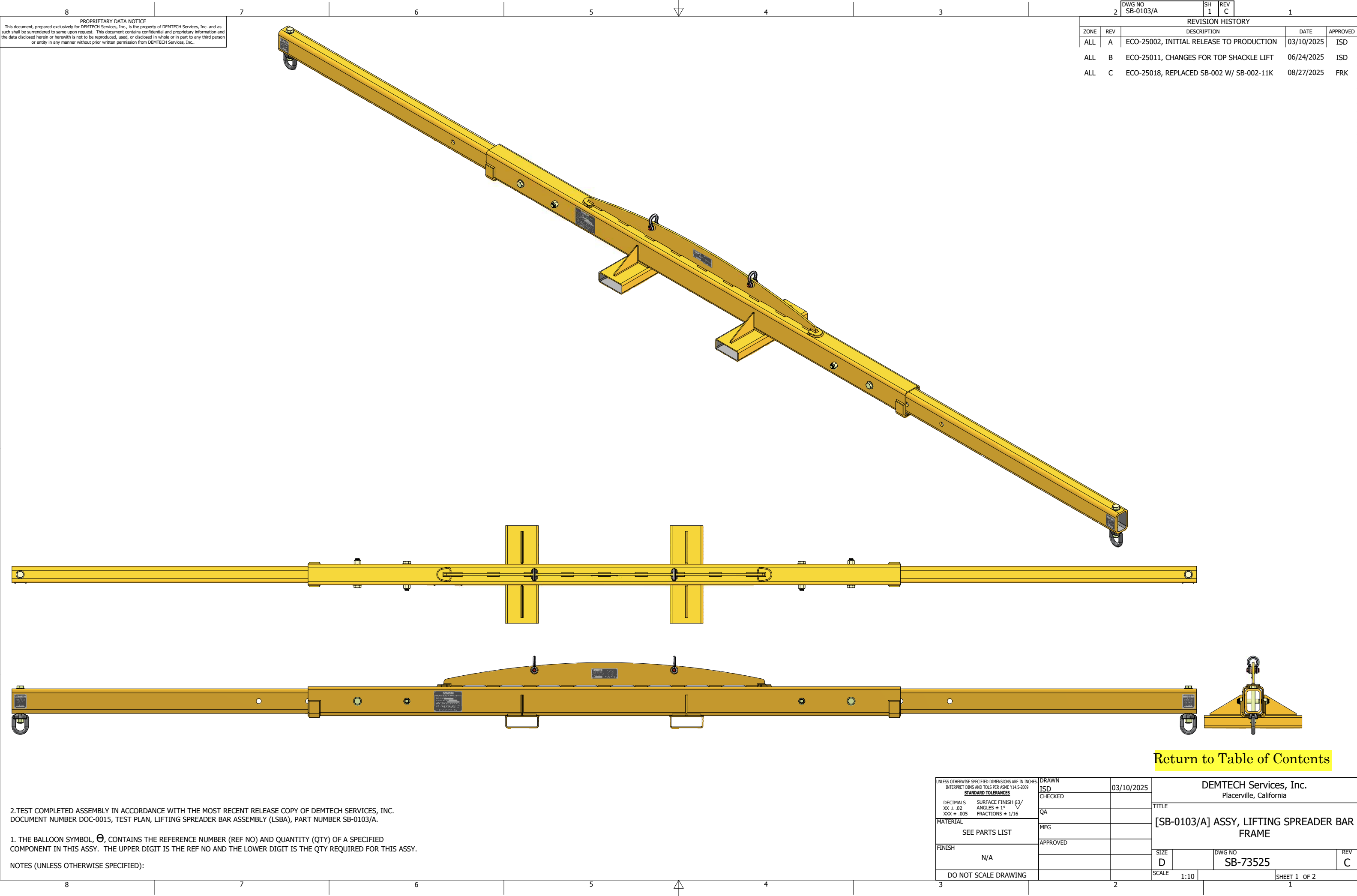
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1 Ordering Instructions

Use the exploded assembly diagrams and related parts lists on the following pages to identify replacement parts for the Spreader-Bar deployment system. For a specific assembly diagram identify a part by finding it visually on the diagram and note its Reference Number (REF NO). Next refer to the parts list to identify its corresponding INVENTORY ID. When ordering parts, be sure to specify the INVENTORY ID not the REF NO. "**HARDWARE**" refers to non-stock components, these parts are also available for order by providing the complete part description.





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2		DWG NO SB-0103/A	SH 1	REV C	1	
REVISION HISTORY						
ZONE	REV	DESCRIPTION		DATE	APPROVED	
ALL	A	ECO-25002, INITIAL RELEASE TO PRODUCTION		03/10/2025	ISD	
ALL	B	ECO-25011, CHANGES FOR TOP SHACKLE LIFT		06/24/2025	ISD	
ALL	C	ECO-25018, REPLACED SB-002 W/ SB-002-11K		08/27/2025	FRK	

2. TEST COMPLETED ASSEMBLY IN ACCORDANCE WITH THE MOST RECENT RELEASE COPY OF DEMTECH SERVICES, INC. DOCUMENT NUMBER DOC-0015, TEST PLAN, LIFTING SPREADER BAR ASSEMBLY (LSBA), PART NUMBER SB-0103/A.

1. THE BALLOON SYMBOL, Θ , CONTAINS THE REFERENCE NUMBER (REF NO) AND QUANTITY (QTY) OF A SPECIFIED COMPONENT IN THIS ASSY. THE UPPER DIGIT IS THE REF NO AND THE LOWER DIGIT IS THE QTY REQUIRED FOR THIS ASSY.

NOTES (UNLESS OTHERWISE SPECIFIED):

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES		DRAWN ISD	03/10/2025	DEMTECH Services, Inc. Placerville, California	
DECIMALS XX ± .02 XXX ± .005		CHECKED		TITLE	
SURFACE FINISH 63/ ANGLES ± 1° FRACTIONS ± 1/16		QA		[SB-0103/A] ASSY, LIFTING SPREADER BAR FRAME	
MATERIAL SEE PARTS LIST		MFG		SIZE D	
FINISH N/A		APPROVED		DWG NO SB-73525	REV C
DO NOT SCALE DRAWING				SCALE 1:10	SHEET 1 OF 2

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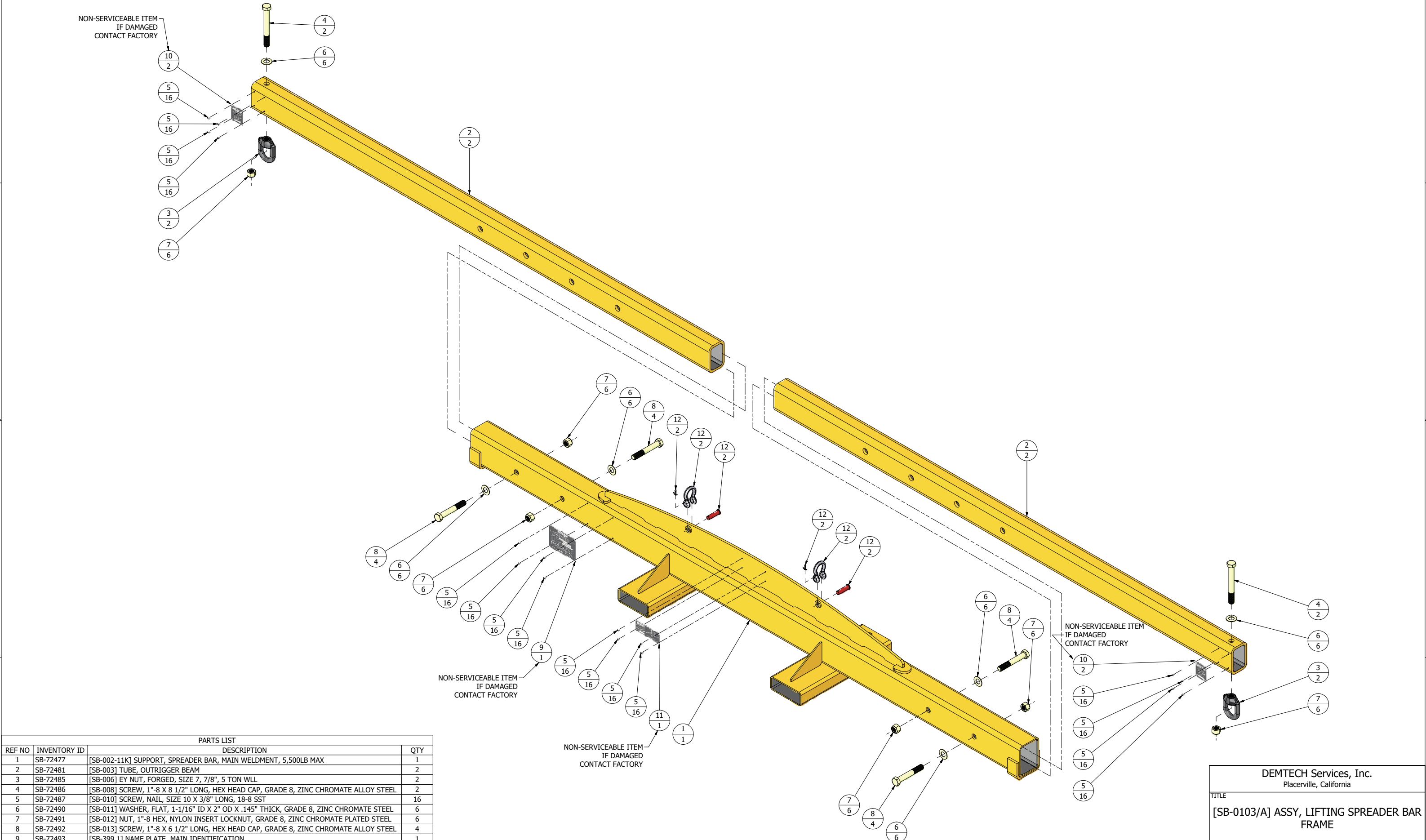
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D

C

B

A



PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	SB-72477	[SB-002-11K] SUPPORT, SPREADER BAR, MAIN WELDMENT, 5,500LB MAX	1
2	SB-72481	[SB-003] TUBE, OUTRIGGER BEAM	2
3	SB-72485	[SB-006] EY NUT, FORGED, SIZE 7, 7/8", 5 TON WLL	2
4	SB-72486	[SB-008] SCREW, 1"-8 X 8 1/2" LONG, HEX HEAD CAP, GRADE 8, ZINC CHROMATE ALLOY STEEL	2
5	SB-72487	[SB-010] SCREW, NAIL, SIZE 10 X 3/8" LONG, 18-8 SST	16
6	SB-72490	[SB-011] WASHER, FLAT, 1-1/16" ID X 2" OD X .145" THICK, GRADE 8, ZINC CHROMATE STEEL	6
7	SB-72491	[SB-012] NUT, 1"-8 HEX, NYLON INSERT LOCKNUT, GRADE 8, ZINC CHROMATE PLATED STEEL	6
8	SB-72492	[SB-013] SCREW, 1"-8 X 6 1/2" LONG, HEX HEAD CAP, GRADE 8, ZINC CHROMATE ALLOY STEEL	4
9	SB-72493	[SB-399.1] NAME PLATE, MAIN IDENTIFICATION	1
10	SB-72494	[SB-399.2] PLATE, WARNING, OUTRIGGER BEAM	2
11	SB-72502	[SB-399.4] NAMEPLATE, SLING LIFT POINT	1
12	SB-72510	[SB-M-008] SHACLE, BOLT TYPE, 5/8", 3 1/4" TON WLL	2

DEMTECH Services, Inc.
Placerville, California

TITLE

[SB-0103/A] ASSY, LIFTING SPREADER BAR
FRAME

SIZE
D

DWG NO
SB-73525

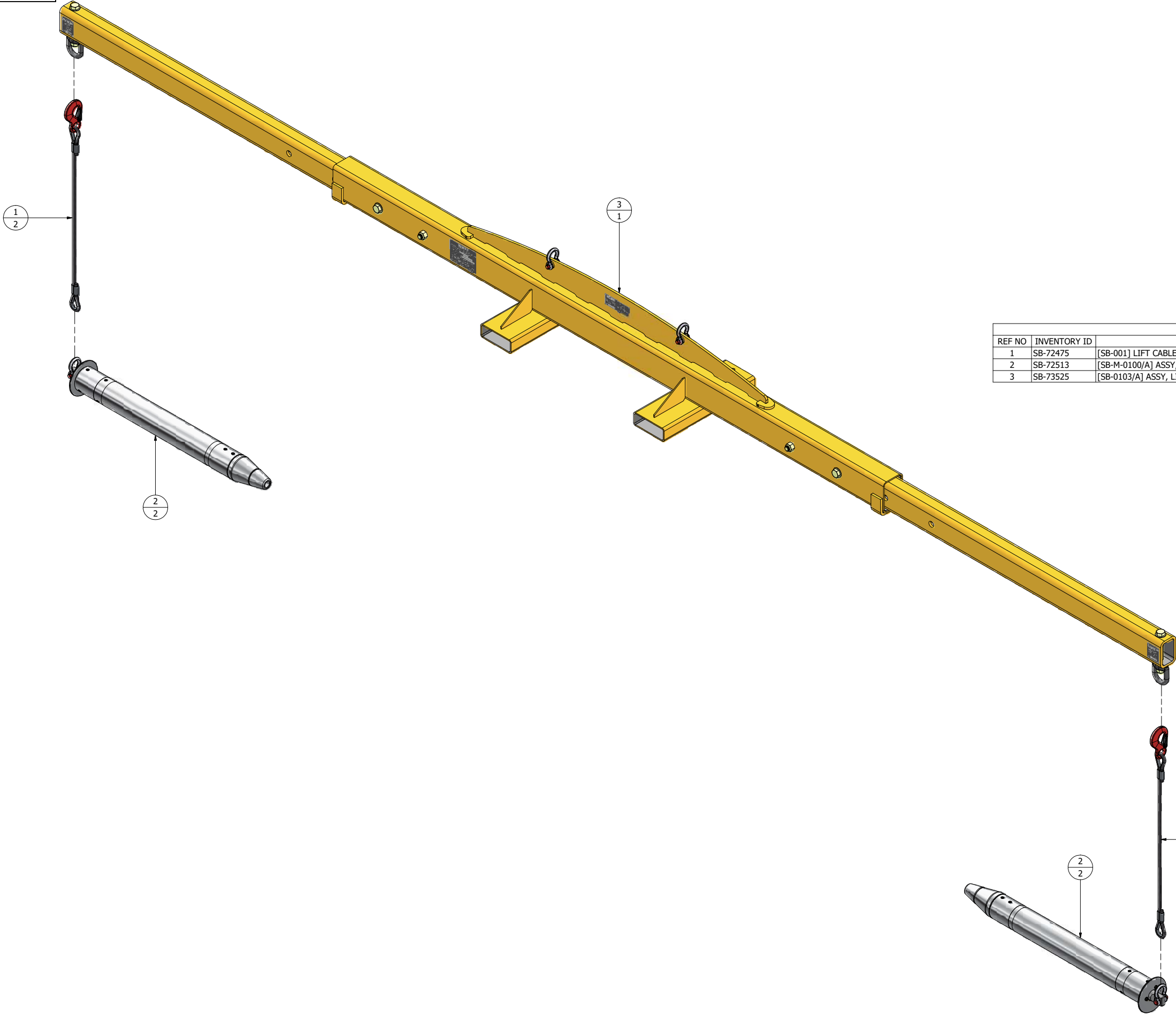
REV
C

SCALE
1:8

SHEET 2 OF 2

A

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	SB-72475	[SB-001] LIFT CABLE, W/HOOK, LOAD RATED, W/CERTIFICATE	2
2	SB-72513	[SB-M-0100/A] ASSY, MISSILE (SPINDLE), SPREADER BAR ROLL DEPLOYMENT SYSTEM	2
3	SB-73525	[SB-0103/A] ASSY, LIFTING SPREADER BAR FRAME	1

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DEMTECH Services, Inc.
Placerville, California

TITLE
[SB-0201/A] ASSY, LIFTING SPREADER BAR,
LOAD TESTED & CERTIFIED COMPLETE
W/LIFT CABLES & MISSILES

SIZE
D

DWG NO
SB-0201/A

REV
A

SCALE 1:10

SHEET 2 OF 3

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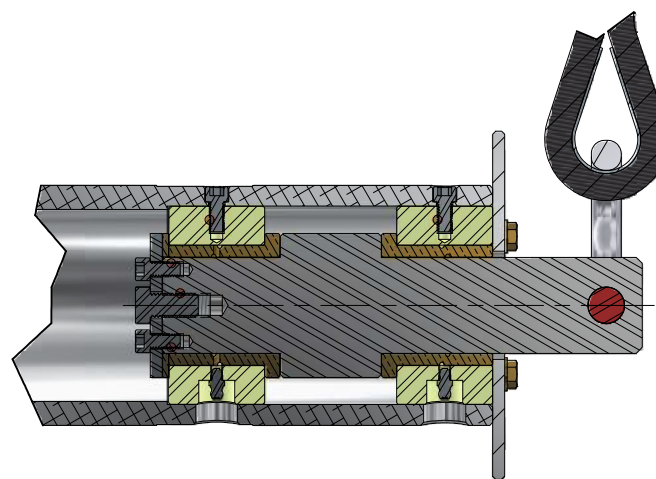
DETAIL A
SCALE 1 / 4



DETAIL B
SCALE 1 / 4



SECTION C-C
SCALE 1 / 4



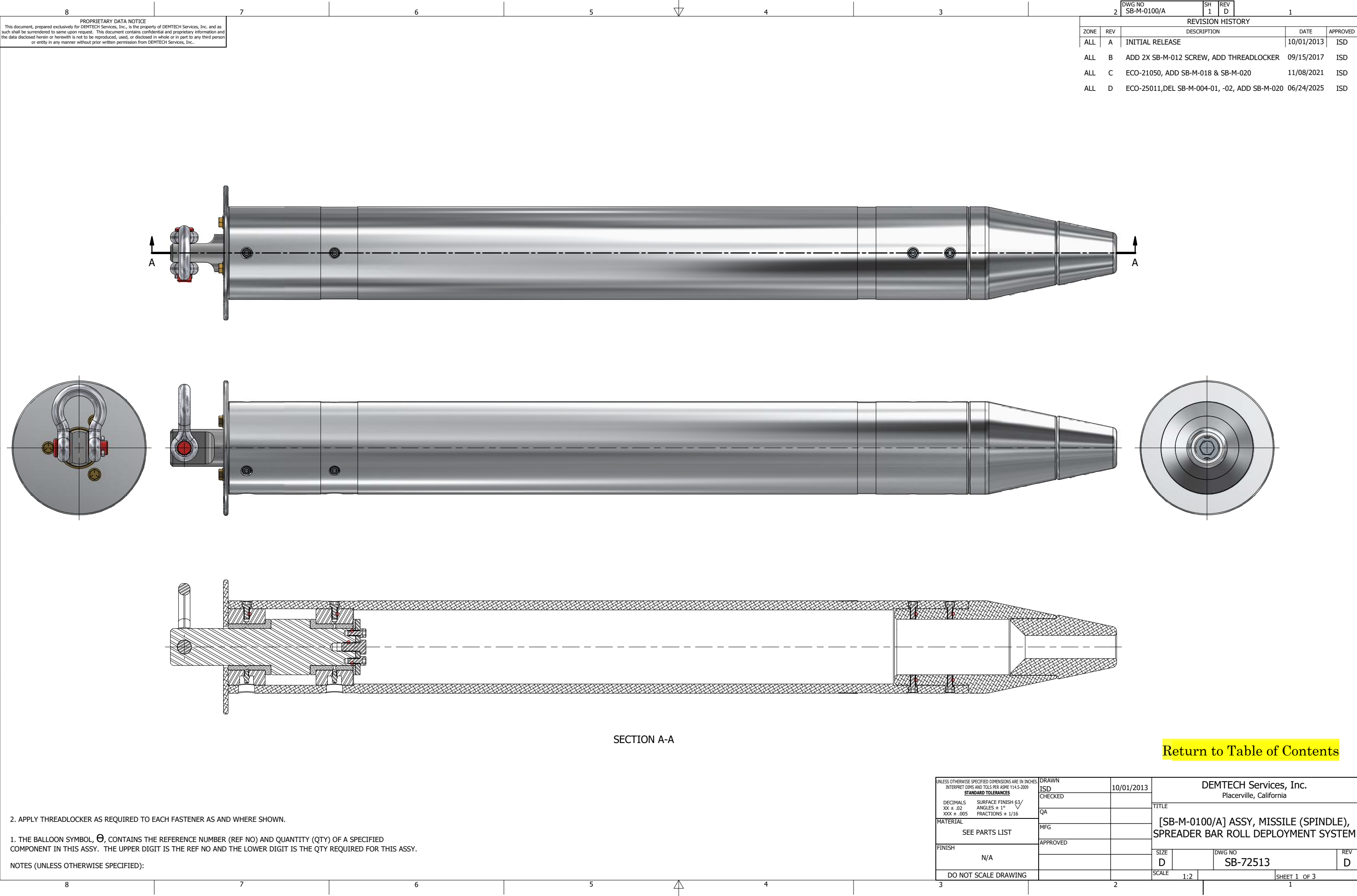
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SCALE 1 / 2

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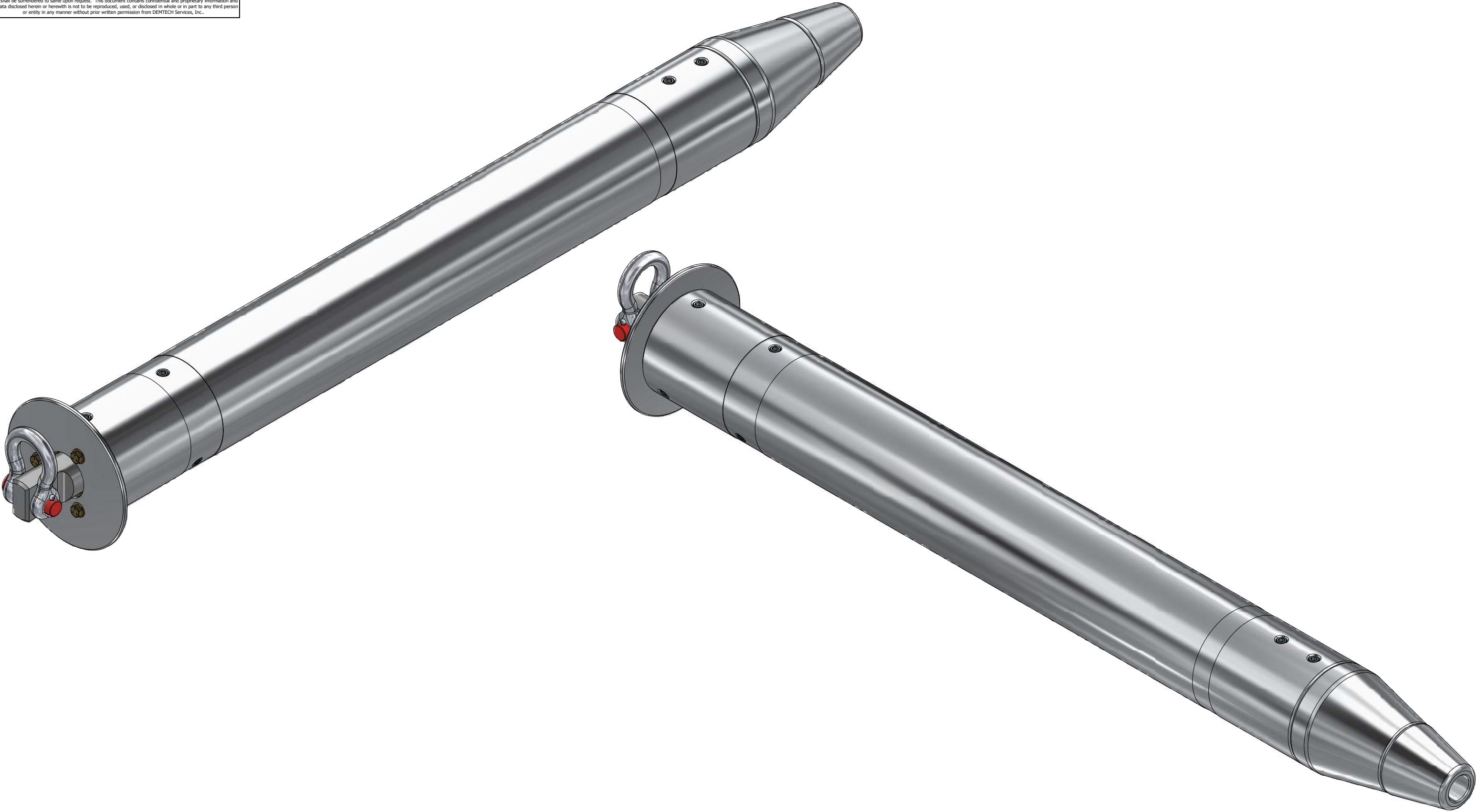
DEMTECH Services, Inc.
Placerville, California

TITLE	[SB-0201/A] ASSY, LIFTING SPREADER BAR, LOAD TESTED & CERTIFIED COMPLETE W/LIFT CABLES & MISSILES
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SIZE D		DWG NO SB-0201/A	REV A
SCALE 1:4		SHEET 3 OF 3	



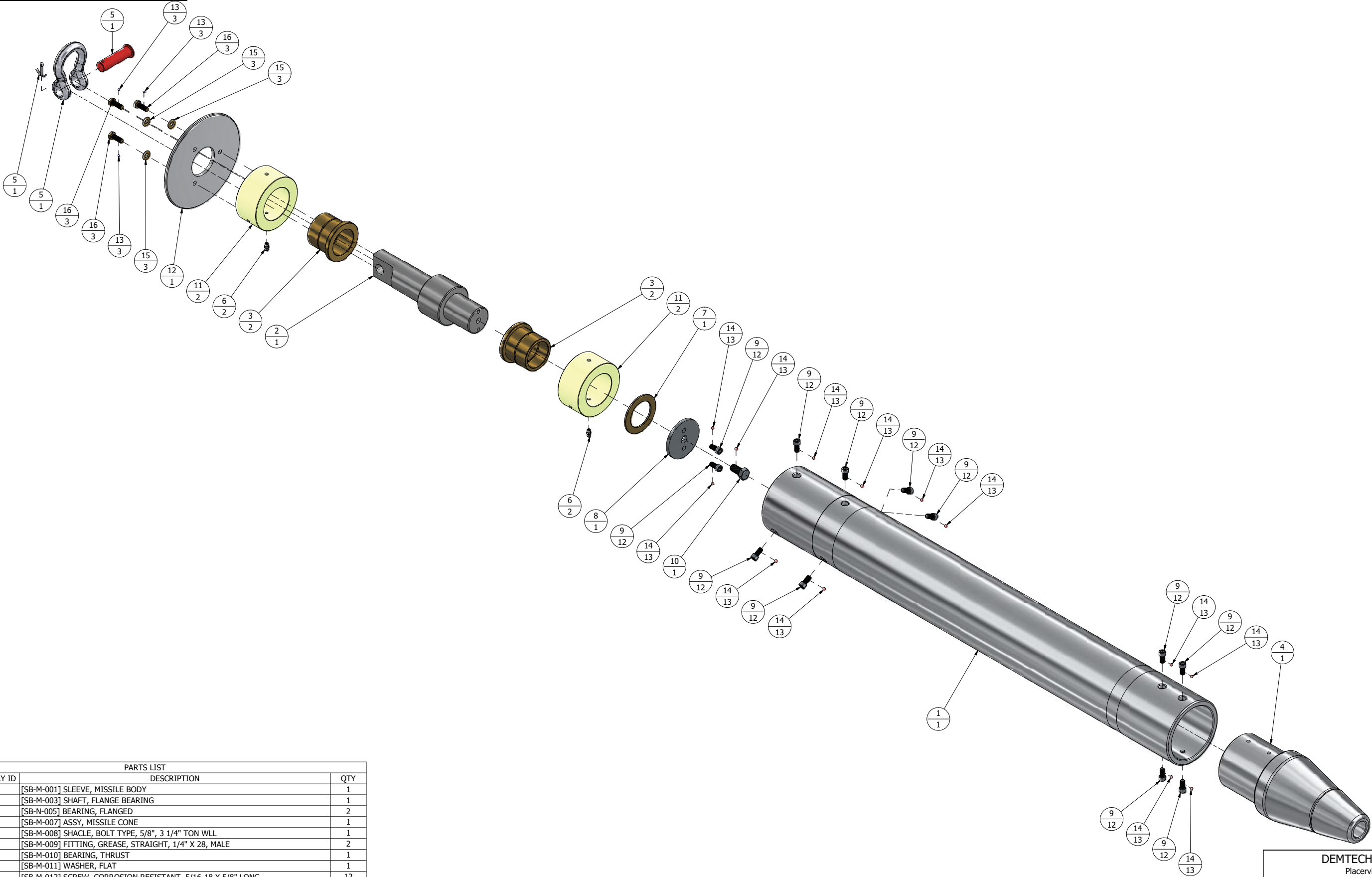
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DEMTECH Services, Inc. Placerville, California			
TITLE [SB-M-0100/A] ASSY, MISSILE (SPINDLE), SPREADER BAR ROLL DEPLOYMENT SYSTEM			
SIZE D		DWG NO SB-72513	REV D
SCALE 1:2	SHEET 2 OF 3		

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	SB-72497	[SB-M-001] SLEEVE, MISSILE BODY	1
2	SB-72501	[SB-M-003] SHAFT, FLANGE BEARING	1
3	SB-72505	[SB-N-005] BEARING, FLANGED	2
4	SB-72509	[SB-M-007] ASSY, MISSILE CONE	1
5	SB-72510	[SB-M-008] SHACLE, BOLT TYPE, 5/8", 3 1/4" TON WLL	1
6	SB-72511	[SB-M-009] FITTING, GREASE, STRAIGHT, 1/4" X 28, MALE	2
7	SB-72512	[SB-M-010] BEARING, THRUST	1
8	SB-72514	[SB-M-011] WASHER, FLAT	1
9	SB-72515	[SB-M-012] SCREW, CORROSION RESISTANT, 5/16-18 X 5/8" LONG	12
10	SB-72516	[SB-M-013] SCREW, GRADE 5, 1/2-13 X 1" LONG	1
11	SB-72622	[SB-M-020] COLLAR, FLANGE BEARING, W/ MOUNT HOLES	2
12	SB-73530	[SB-M-018] ATTACHMENT, ROLL STOP, SPREADER--BAR	1
13	HARDWARE	ADHESIVE, THREADLOCKING LIQUID, BLUE	3
14	HARDWARE	ADHESIVE, THREADLOCKING LIQUID, RED	13
15	HARDWARE	WASHER, ZINC-PLATED, 5/16" SCREW SIZE	3
16	HARDWARE	SCREW, 5/16"-8 X 7/8" LONG, HEX HEAD CAP, GRADE 5, ZINC CHROMATE ALLOY STEEL	3

DEMTECH Services, Inc.
Placerville, California

TITLE

[SB-M-0100/A] ASSY, MISSILE (SPINDLE),
SPREADER BAR ROLL DEPLOYMENT SYSTEM

SIZE
D

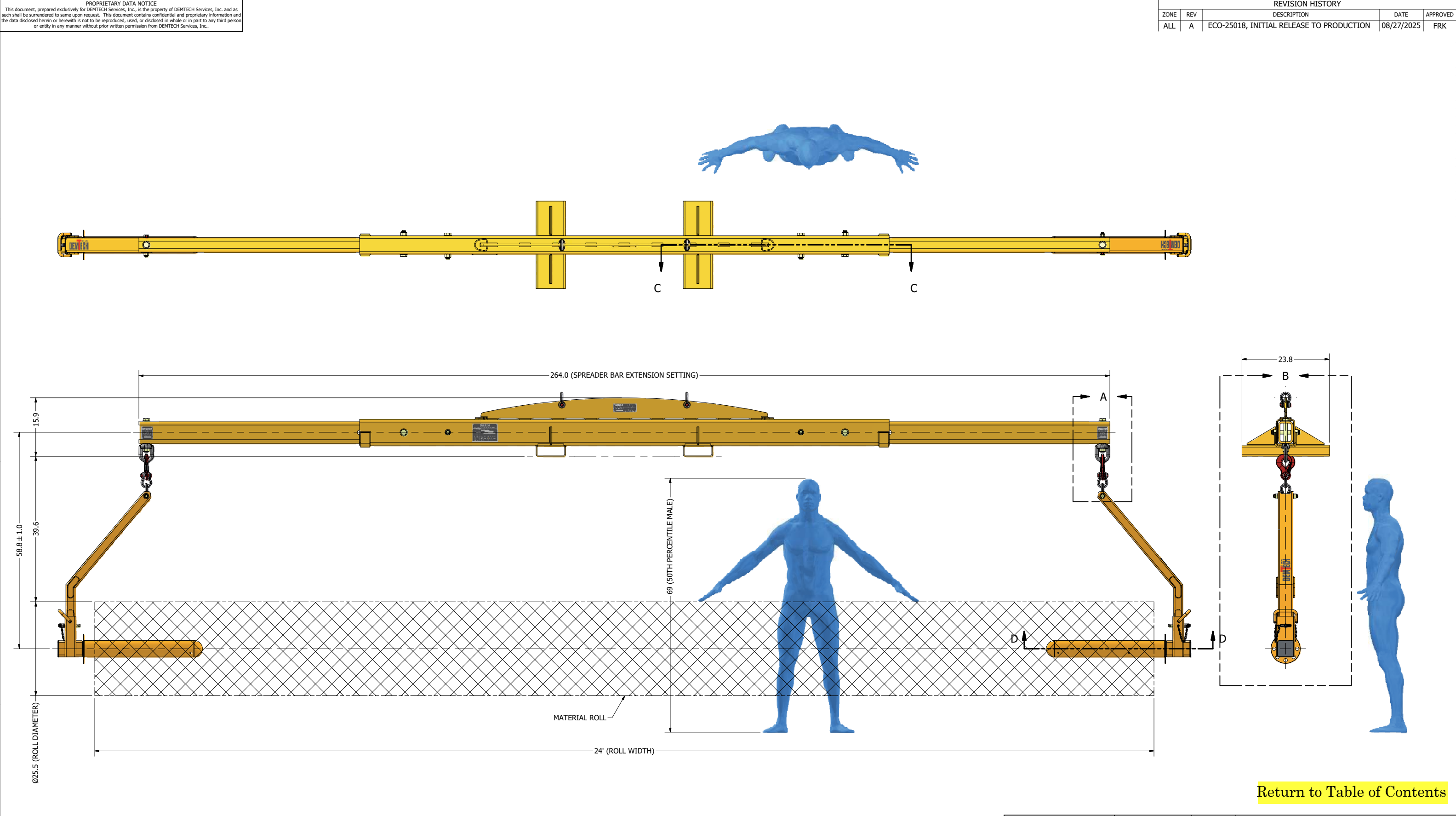
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SB-72513

REV
D

SCALE
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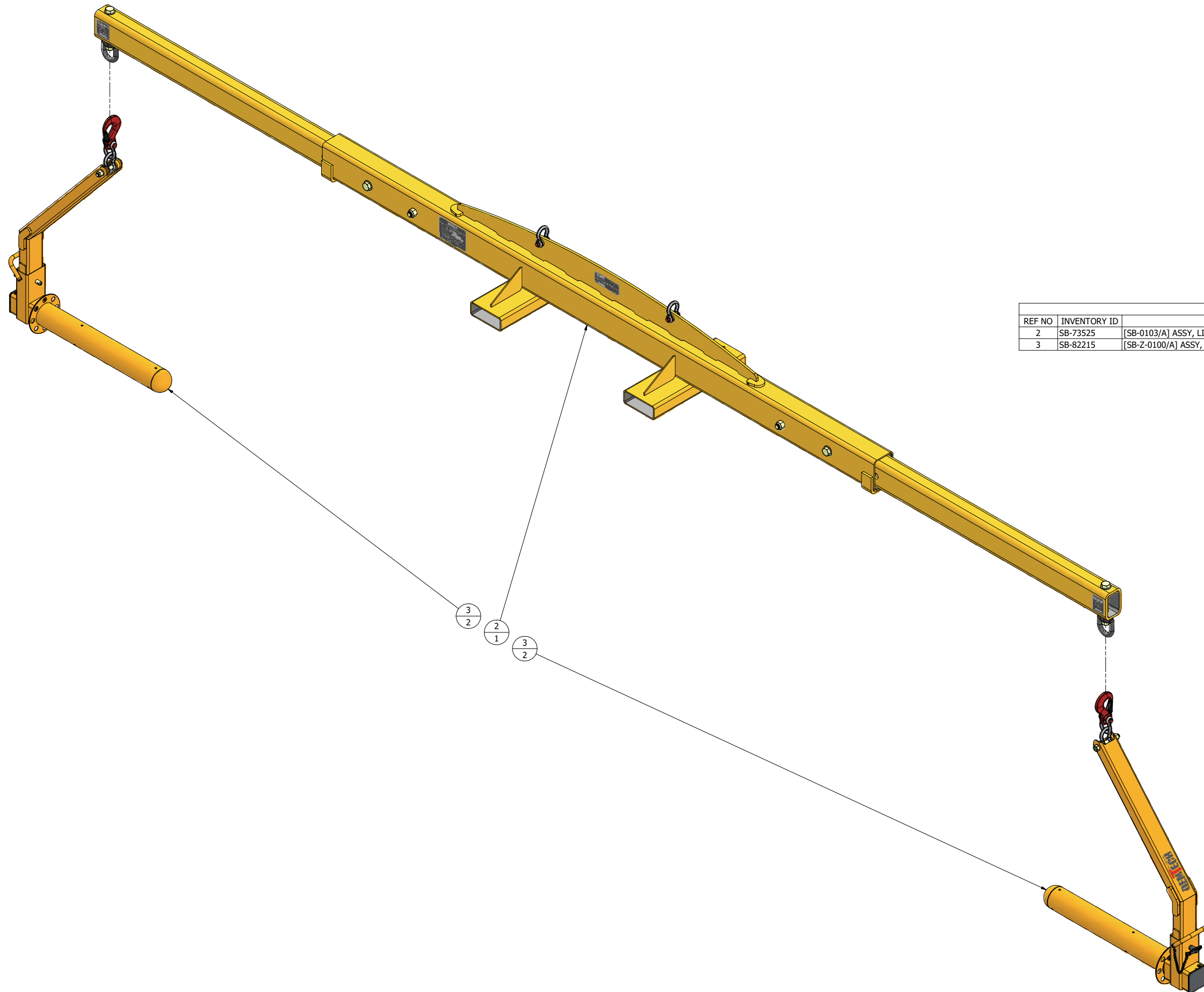
SHEET 3 OF 3

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
2	SB-73525	[SB-0103/A] ASSY, LIFTING SPREADER BAR FRAME	1
3	SB-82215	[SB-Z-0100/A] ASSY, Z-BAR ROLL DEPLOYMENT SPINDLE (COMPLETE UNIT)	2

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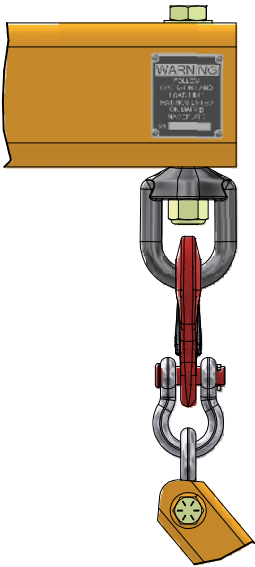
DEMTECH Services, Inc.
Placerville, California

TITLE
[SB-0202/A] ASSY, LIFTING SPREADER BAR, W/ Z-BAR SPINDLES, COMPLETE

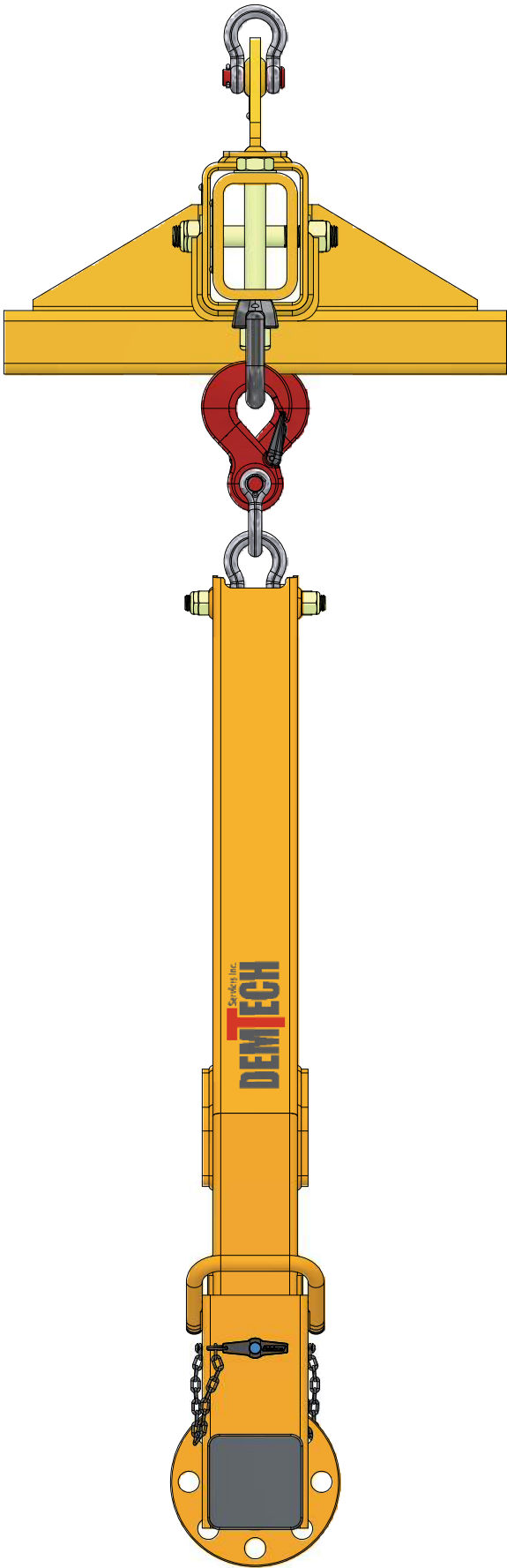
SIZE	DWG NO	REV
D	SB-73529	A

SCALE	1:10	SHEET 2 OF 3
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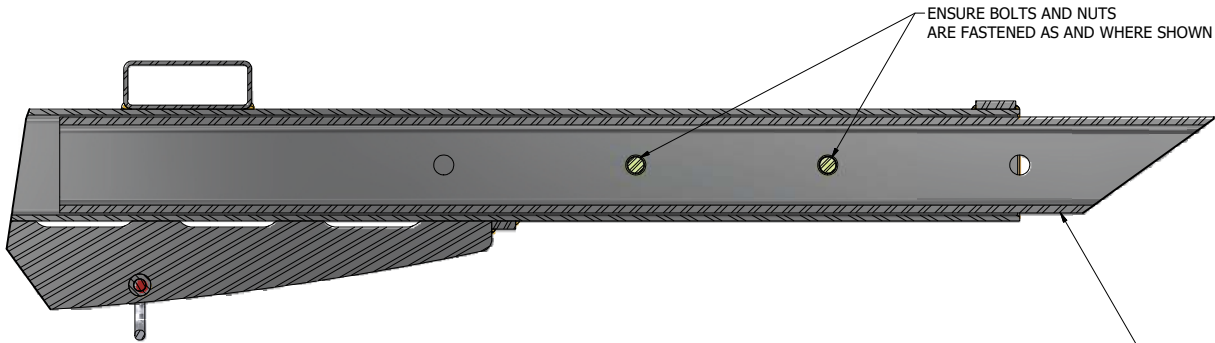
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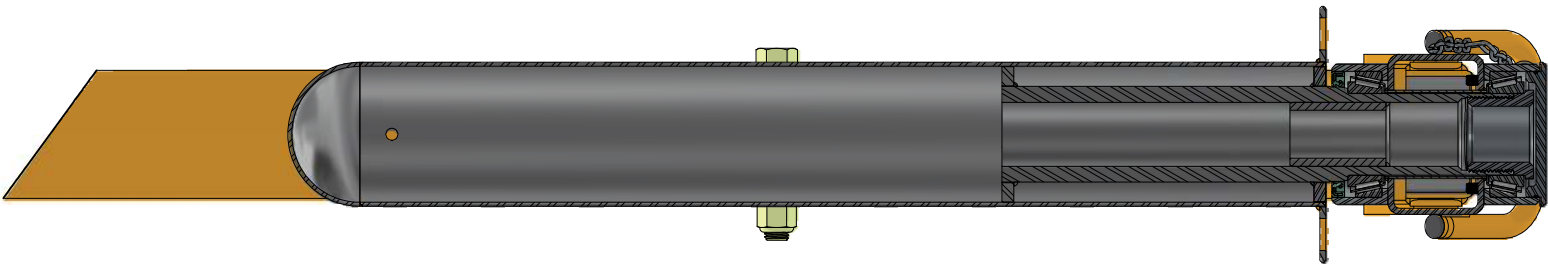
DETAIL A
SCALE 1:4



DETAIL B
SCALE 1:4



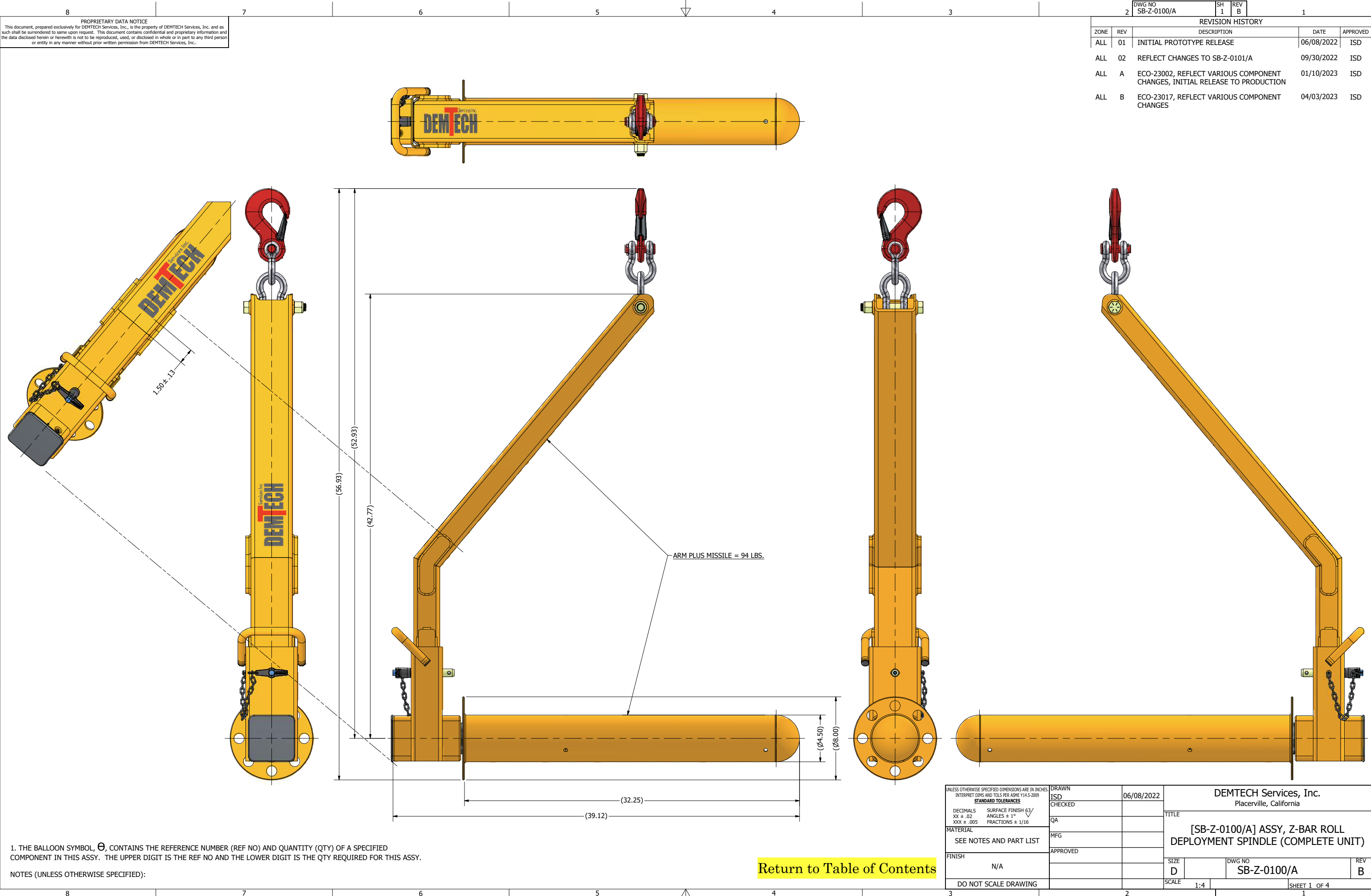
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SCALE 1:6



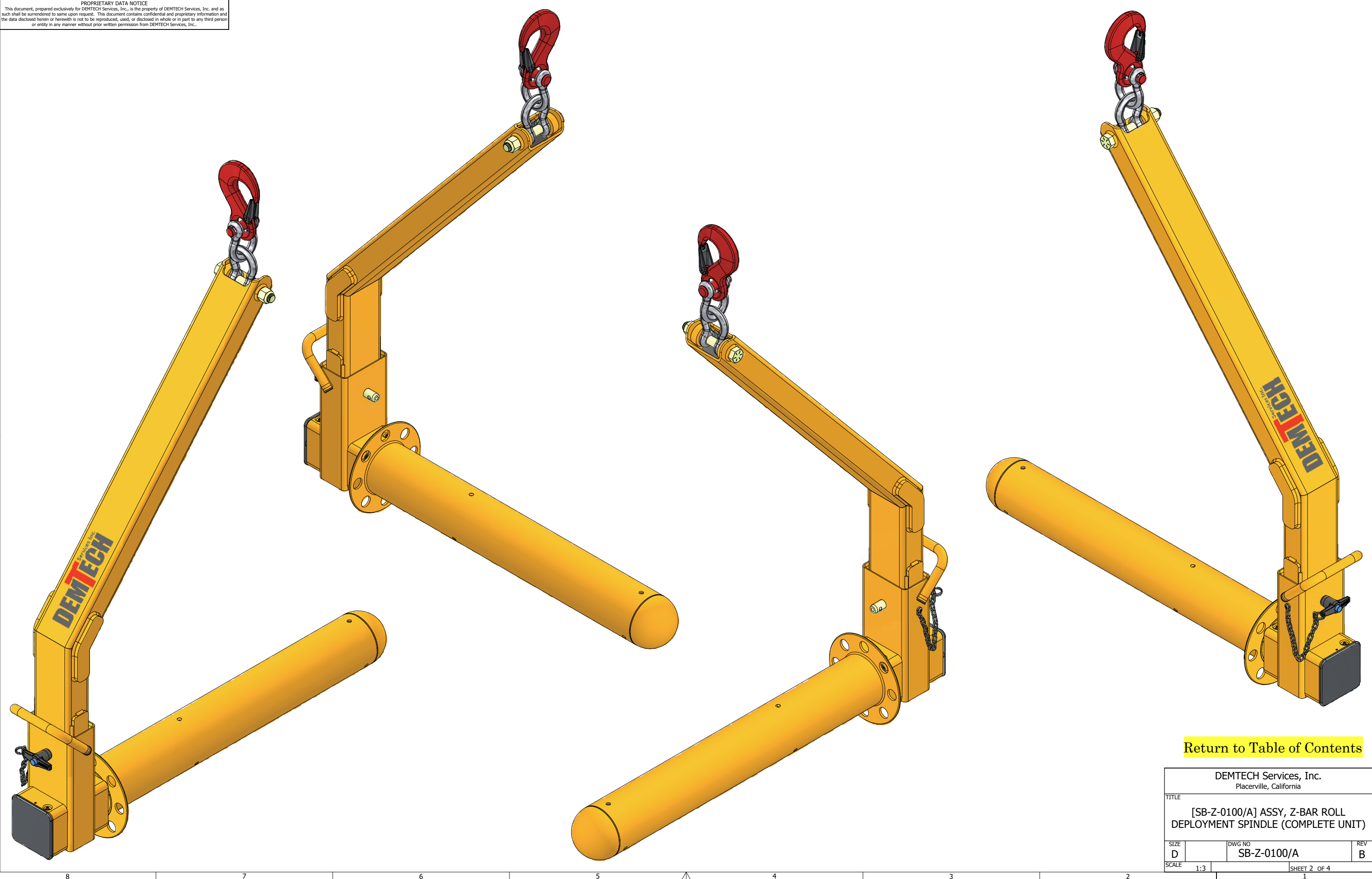
SECTION D-D
SCALE 1:3

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TITLE [SB-0202/A] ASSY, LIFTING SPREADER BAR, W/ Z-BAR SPINDLES, COMPLETE			
SIZE D	DWG NO SB-73529		REV A
SCALE 1:4	SHEET 3 OF 3		



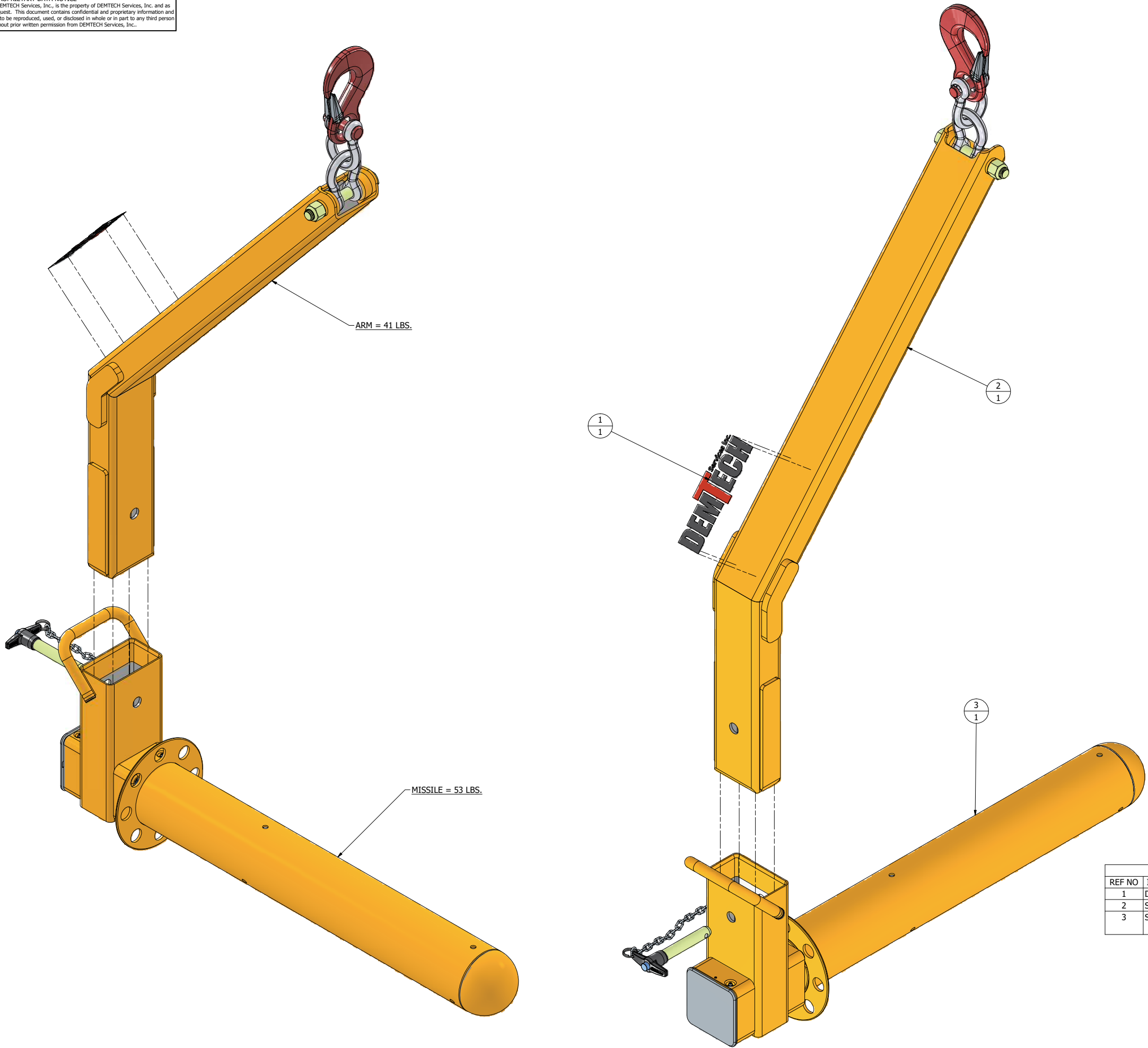
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DEMTECH Services, Inc. Placerville, California		
TITLE [SB-Z-0100/A] ASSY, Z-BAR ROLL DEPLOYMENT SPINDLE (COMPLETE UNIT)		
SIZE D	DWG NO SB-Z-0100/A	REV B
SCALE 1:3	SHEET 2 OF 4	

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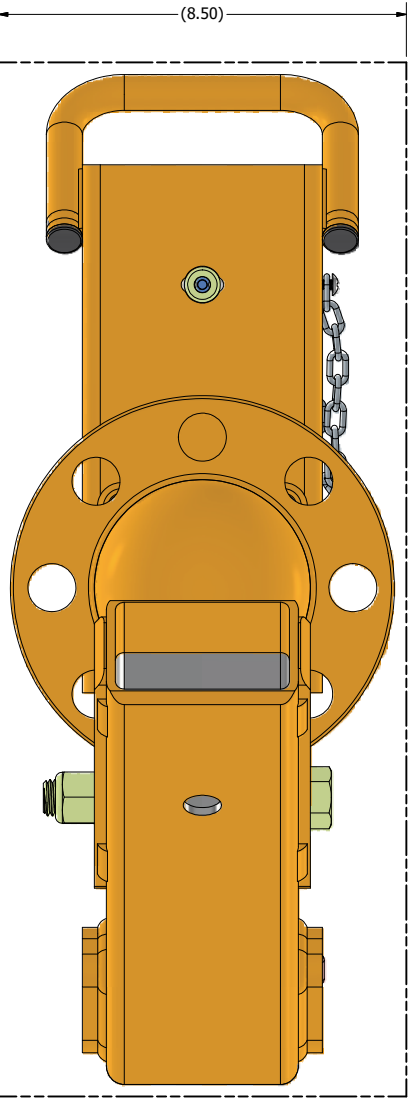
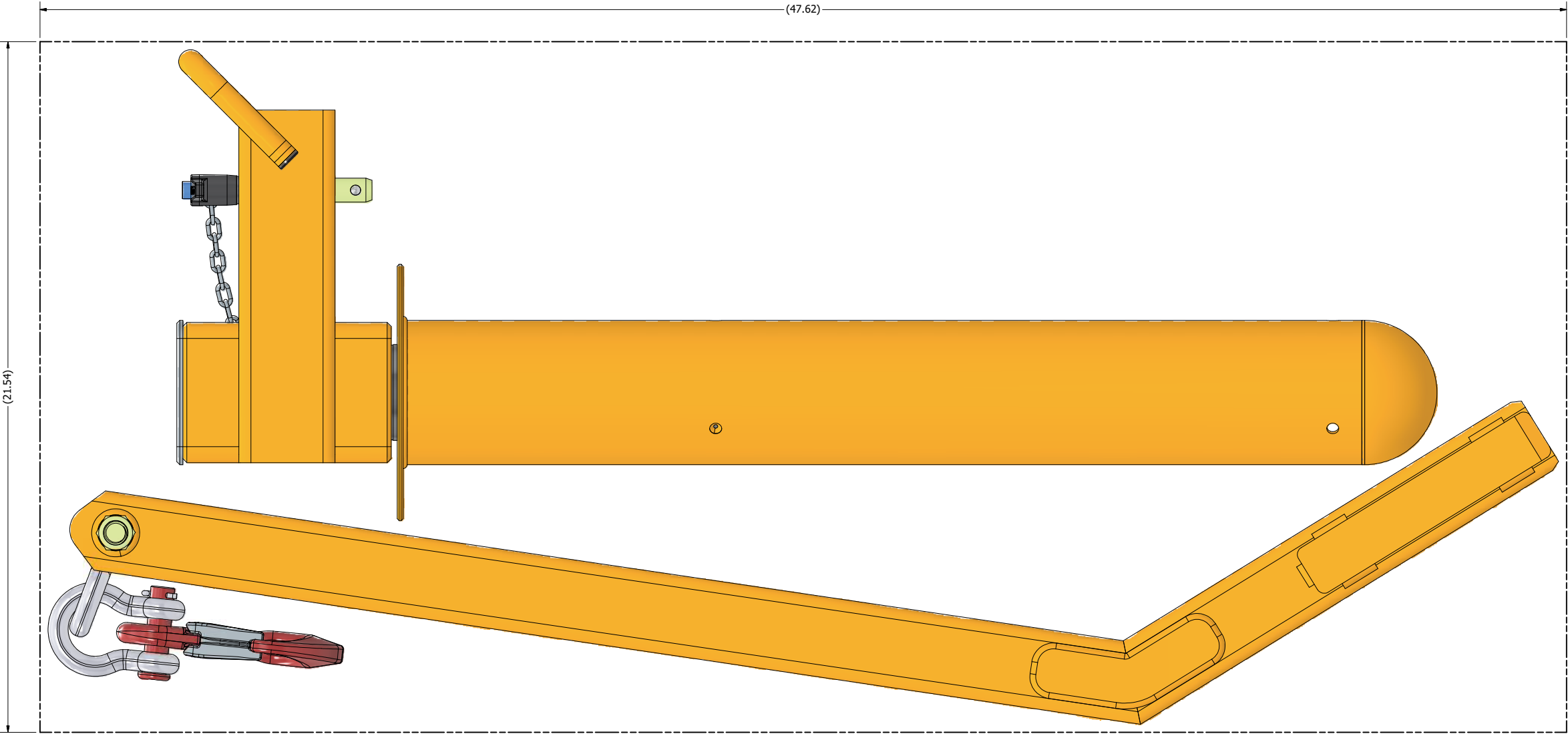


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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	DT-72336	[LABEL-DEMTECH] LABEL-DEMTECH LOGO, BLACK W/RED "T"	1
2	SB-82200	[SB-Z-0101/A] ASSY, ARM, Z-BAR (UPPER ARM ASSY ONLY)	1
3	SB-82205	[SB-Z-0102/A] ASSY, LOWER SPINDLE SYSTEM, Z-BAR (SPINDLE & BEARING ASSY COMPLETE)	1

DEMTECH Services, Inc. Placerville, California			
TITLE [SB-Z-0100/A] ASSY, Z-BAR ROLL DEPLOYMENT SPINDLE (COMPLETE UNIT)			
SIZE D	DWG NO SB-82215		REV B
SCALE 1:3	SHEET 3 OF 4		

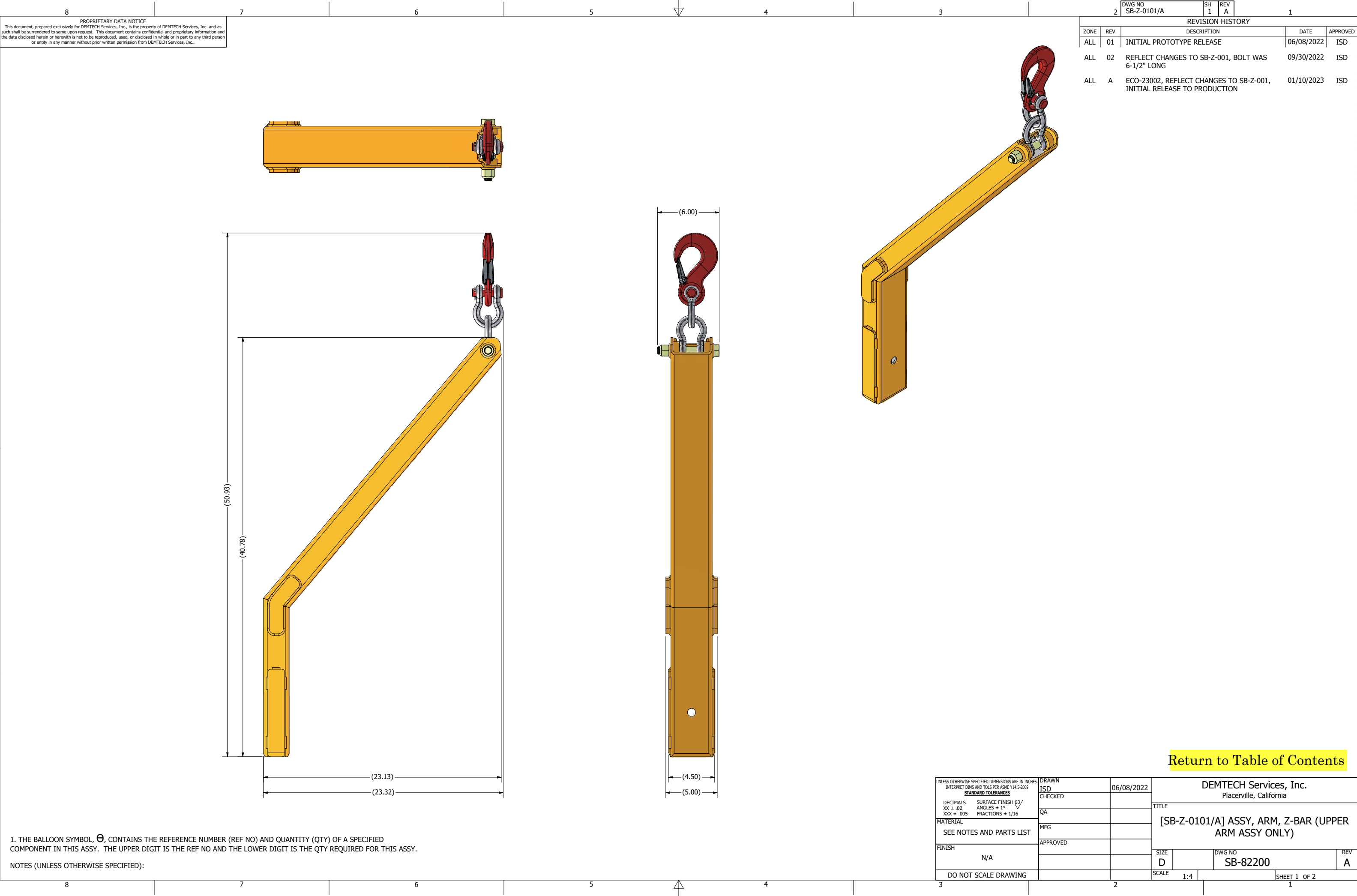
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PACK AND SHIP ORIENTATION

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DEMTECH Services, Inc. Placerville, California			
TITLE [SB-Z-0100/A] ASSY, Z-BAR ROLL DEPLOYMENT SPINDLE (COMPLETE UNIT)			
SIZE D	DWG NO SB-82215		REV B
SCALE 1:2	SHEET 4 OF 4		



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REVISION HISTORY					
ZONE	REV	DESCRIPTION		DATE	APPROVED
ALL	01	INITIAL PROTOTYPE RELEASE		06/08/2022	ISD
ALL	02	REFLECT CHANGES TO SB-Z-001, BOLT WAS 6-1/2" LONG		09/30/2022	ISD
ALL	A	ECO-23002, REFLECT CHANGES TO SB-Z-001, INITIAL RELEASE TO PRODUCTION		01/10/2023	ISD

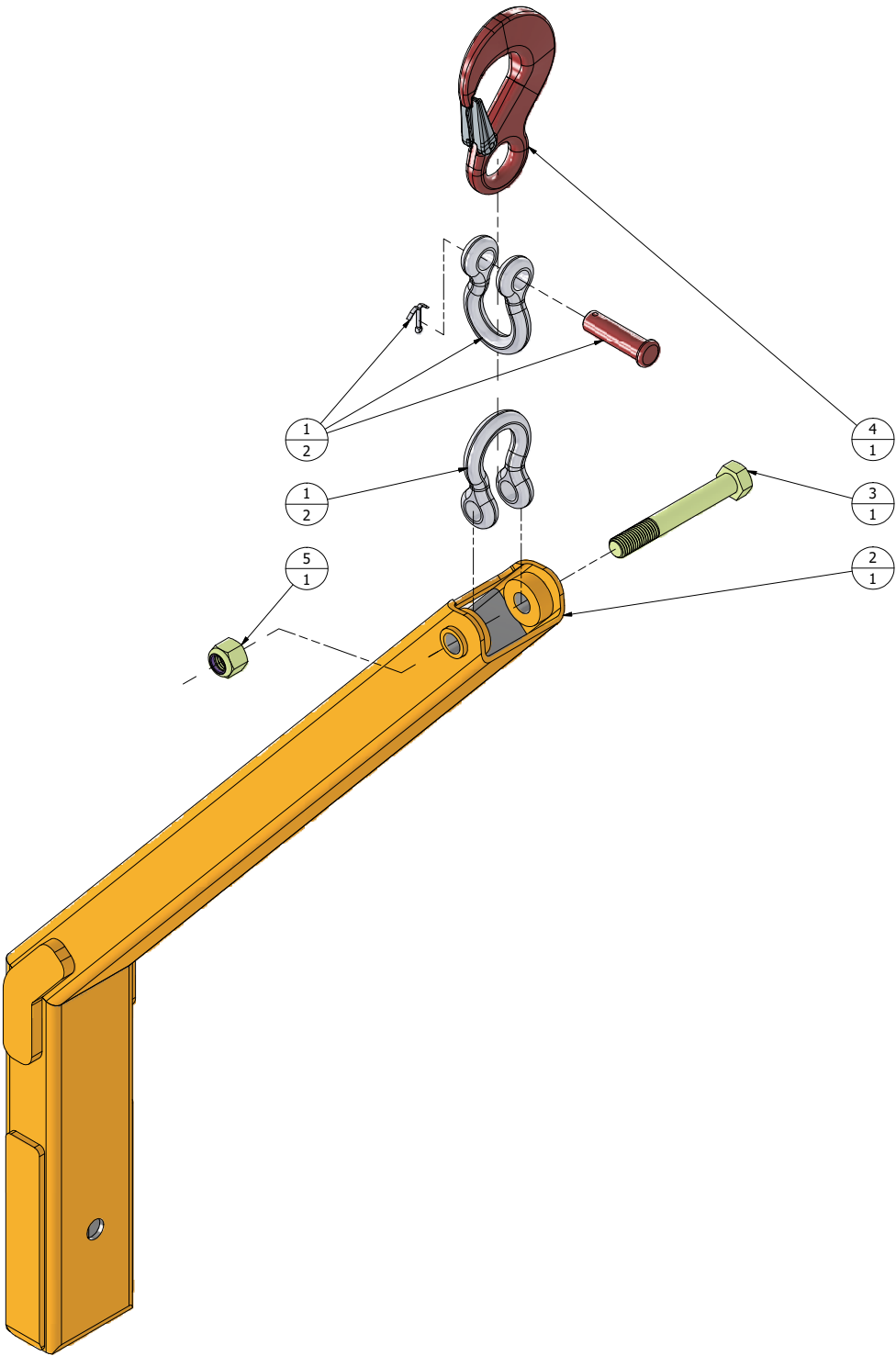
[Return to Table of Contents](#)

1. THE BALLOON SYMBOL, Θ , CONTAINS THE REFERENCE NUMBER (REF NO) AND QUANTITY (QTY) OF A SPECIFIED COMPONENT IN THIS ASSY. THE UPPER DIGIT IS THE REF NO AND THE LOWER DIGIT IS THE QTY REQUIRED FOR THIS ASSY.

NOTES (UNLESS OTHERWISE SPECIFIED):

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES DECIMALS SURFACE FINISH 63/ XX ± .02 ANGLES ± 1° XXX ± .005 FRACTIONS ± 1/16 MATERIAL SEE NOTES AND PARTS LIST FINISH N/A DO NOT SCALE DRAWING		DRAWN ISD	06/08/2022	DEMTECH Services, Inc. Placerville, California TITLE [SB-Z-0101/A] ASSY, ARM, Z-BAR (UPPER ARM ASSY ONLY) SIZE D DWG NO SB-82200 REV A		
		CHECKED				
		QA				
		MFG				
		APPROVED				
		SCALE	1:4	SHEET 1 OF 2		

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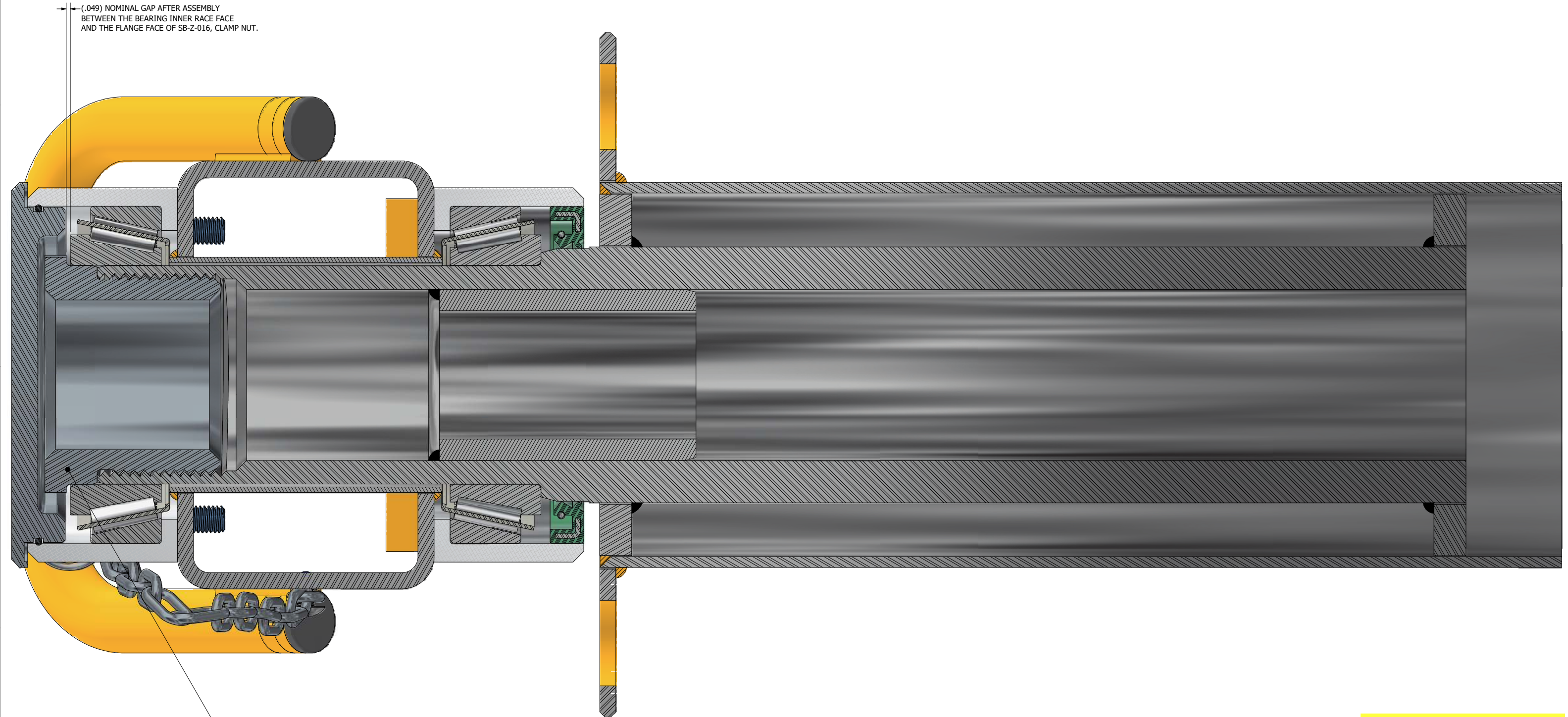


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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	SB-72510	[SB-M-008] SHACLE, BOLT TYPE, 5/8", 3 1/4" TON WLL	2
2	SB-82170	[SB-Z-001] ARM, UPPER WELDMENT, Z-BAR	1
3	SB-82190	[SB-Z-012] BOLT, 3/4"-10 X 5-1/2" LONG, HEX HEAD, GRADE 8, ZINC PLATED ALLOY STEEL	1
4	SB-82195	[SB-Z-008] EYE HOOK, FORGED ALLOY, ID CODE H, 3 TON WORKING LOAD LIMIT, W/ LATCH (CROSBY 1022413)	1
5	HARDWARE	NUT, 3/4"-10, HEX NYLON-INSERT LOCKING, GRADE 8, ZINC PLATED ALLOY STEEL	1

DEMTECH Services, Inc. Placerville, California			
TITLE [SB-Z-0101/A] ASSY, ARM, Z-BAR (UPPER ARM ASSY ONLY)			
SIZE D	DWG NO SB-82200		REV A
SCALE 1:3	SHEET 2 OF 2		

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(.049) NOMINAL GAP AFTER ASSEMBLY
BETWEEN THE BEARING INNER RACE FACE
AND THE FLANGE FACE OF SB-Z-016, CLAMP NUT.

SECTION A-A
SCALE 2 : 1

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DEMTECH Services, Inc. Placerville, California			
TITLE [SB-Z-0102/A] ASSY, LOWER SPINDLY SYSTEM, Z-BAR (SPINDLE & BEARING ASSY COMPLETE)			
SIZE D	DWG NO SB-82205		REV C
SCALE 2:1	SHEET 2 OF 3		

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This diagram illustrates the exploded view of a mechanical assembly, likely a hydraulic cylinder or actuator. The components are color-coded: yellow for the main housing and rod, grey for bearings and seals, and blue for fasteners. The assembly includes a main housing with a handle, a central shaft with a rod, and various internal components like bearings, seals, and fasteners. The parts list table below provides a detailed description of each component and its quantity.

PARTS LIST	
DESCRIPTION	QTY
BOX	1
BUTTON QUICK RELEASE, 4/3" DIAMETER X 3-1/2"	1
INLESS STEEL	
D ROLLER BEARING, Z-BAR	2
NT, Z-BAR	1
MENT, Z-BAR	1
D ROLLER, SINGLE-ROW, 65MM ID X 100MM OD X	2
M ID X 100MM OD X 10MM WIDE, NITRILE RUBBER	1
USING GUARD, Z-BAR	1
INSERT, Z-BAR	1

DEMTECH Services, Inc. Placerville, California			
TITLE [SB-Z-0102/A] ASSY, LOWER SPINDLY SYSTEM, Z-BAR (SPINDLE & BEARING ASSY COMPLETE)			
SIZE D		DWG NO SB-82205	REV C
SCALE 1:3			SHEET 3 OF 3

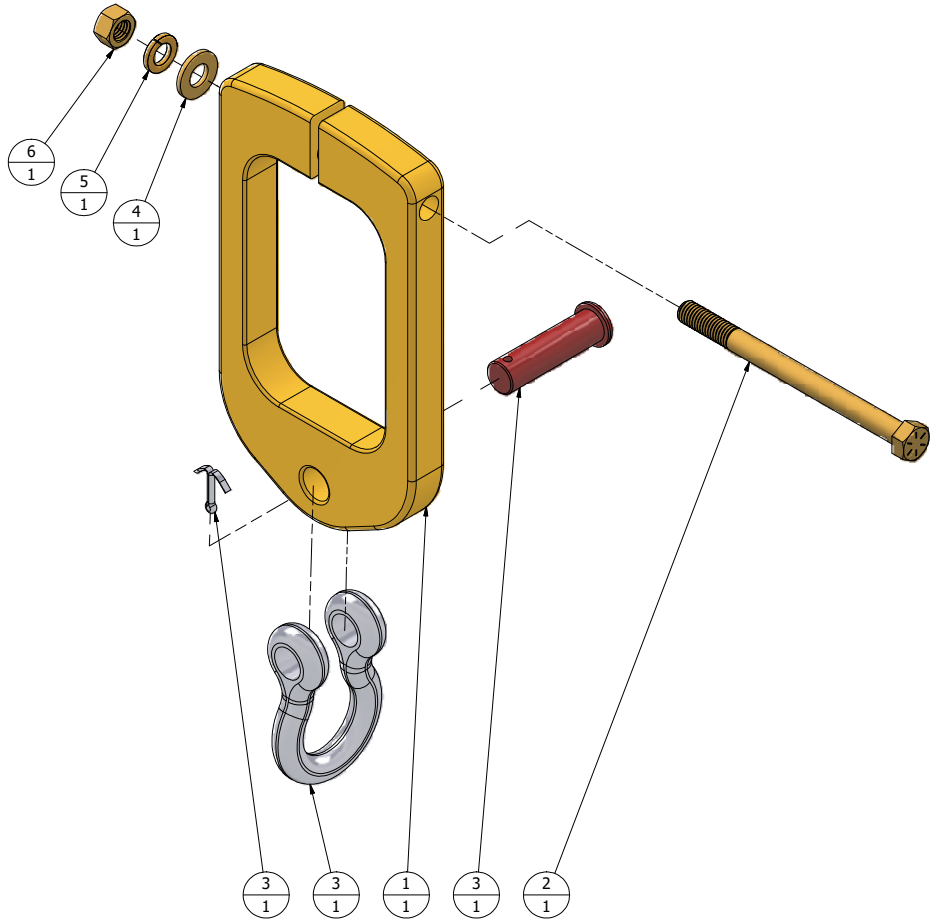
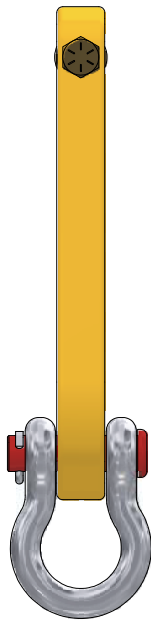
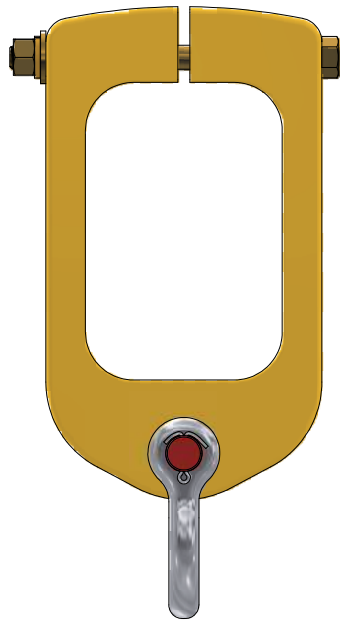
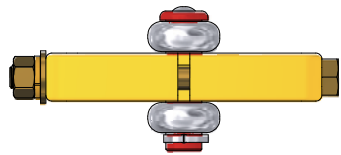
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REVISION HISTORY

ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	01	ECO-22034, ENGINEERING PROTOTYPE	06/16/2022	ODM
ALL	A	ECO-22045, RELEASE TO PRODUCTION	10/05/2022	ODM
ALL	B	ECO-25019, INSTAL DIAGRAM ON SHEET 2	09/04/2025	FRK

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	SB-73526	[SB-016] (SELL/A) ATTACHMENT, ADJUSTABLE MOUNT, SPREADER-BAR	1
2	SB-82574	[SB-020] BOLT, HEX, 1/2"-13 X 6-1/2", GRADE 8, ZINC YELLOW CHROMATE PLATED	1
3	SB-72510	[SB-M-008] SHACLE, BOLT TYPE, 5/8", 3 1/4" TON WLL	1
4	HARDWARE	WASHER, 1/2" SCREW SIZE, ZINC YELLOW-CHROMATE PLATED	1
5	HARDWARE	WASHER, SPLIT, 1/2", GRADE 8	1
6	HARDWARE	NUT, HEX, GRADE 8, 1/2"-13	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN		06/16/2022		DEMTECH Services, Inc.	
<u>STANDARD TOLERANCES</u>		ODM				Placerville, California	
DECIMALS SURFACE FINISH 63/ XX ± .02 XXX ± .005 FRACTIONS ± 1/16		CHECKED				TITLE	
MATERIAL		QA				[SB-016/A] ASSY, ADJUSTABLE COLLAR, SPREADER-BAR	
SEE PARTS LIST		MFG					
FINISH		APPROVED				SIZE	
N/A						D	
DO NOT SCALE DRAWING						DWG NO	
						SB-72620	
						REV	
						B	
						SCALE	
						1:2	
						SHEET 1 OF 2	

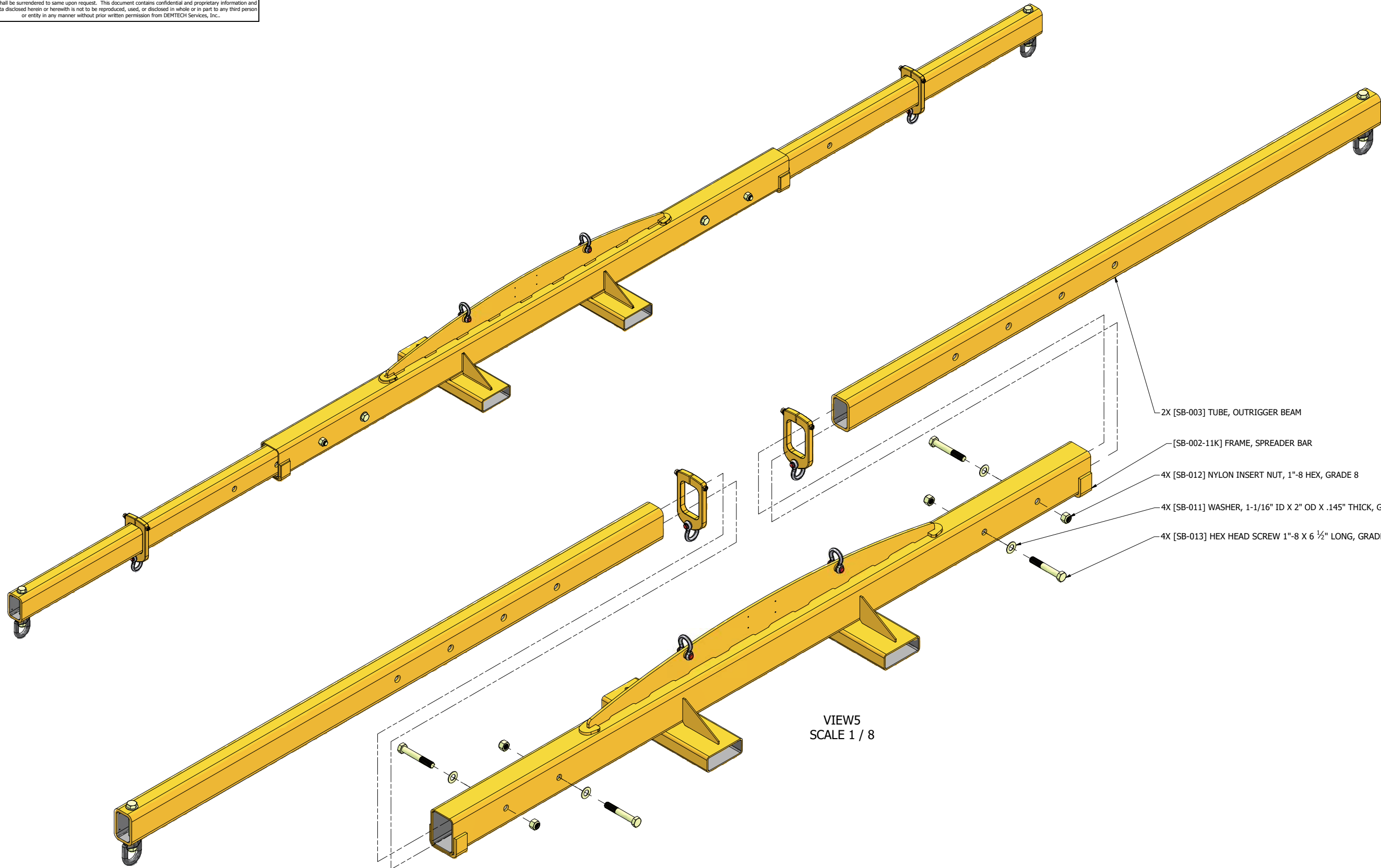
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D

C

B

A



VIEWS
SCALE 1 / 8

INSTALLATION INSTRUCTIONS:

- STEP 1- REMOVE THE 4X [SB-013] 1"-8 X 6 ½" LONG HEX HEAD SCREWS, NUTS AND WASHERS.
- STEP 2- REMOVE OUTRIGGER BEAMS FROM FRAME.
- STEP 3- INSTALL [SB-016/A] ADJUSTABLE COLLARS ONTO OUTRIGGER BEAMS.
- STEP 4- RE-INSERT OUTRIGGER BEAMS INTO FRAME.
- STEP 5- RE-INSERT THE 4X [SB-013] 1"-8 X 6 ½" LONG HEX HEAD SCREWS, NUTS AND WASHERS. **TORQUE--30FT LBS**
- STEP 6- SLIDE [SB-016/A] ADJUSTABLE COLLARS TO DESIRED POSITION EQUAL DISTANCE FROM THE CENTER OF THE SPREADER BAR THEN SECURE BY TIGHTENING NUT AND BOLT. **TORQUE--30FT LBS**
- WARNING- FAILURE TO ADJUST COLLARS EQUAL DISTANCE FROM THE CENTER OF SPREADER BAR WILL RESULT IN AN OUT-OF-BALANCE LOAD, CREATING A DANGEROUS WORK ENVIRONMENT AND POSSIBLY DAMAGING THE EQUIPMENT.

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DEMTECH Services, Inc. Placerville, California			
TITLE [SB-016/A] ASSY, ADJUSTABLE COLLAR, SPREADER-BAR			
SIZE D	DWG NO SB-72620		REV B
SCALE 1:10	SHEET 2 OF 2		