



Pro-X



Parts ID Manual

Inventory ID: PX-13009

Revision: F
DOC-0026

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Scope of Manual:

This manual contains diagrams and related parts lists to identify potential service/spare parts for your DEMTECH Services, Inc. Pro-X Extrusion Welder.

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Manual Number: **PARTS ID MANUAL/PRO-X, Revision: F**

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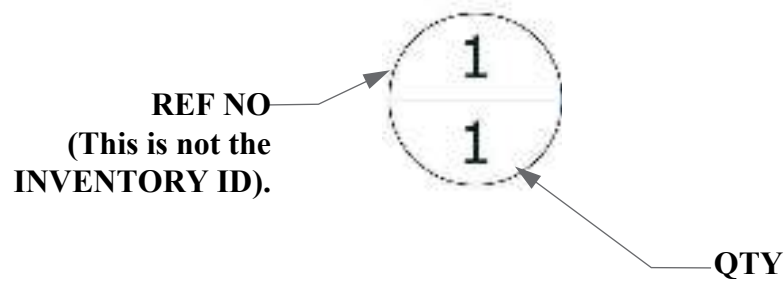
Web Site: www.demtech.com

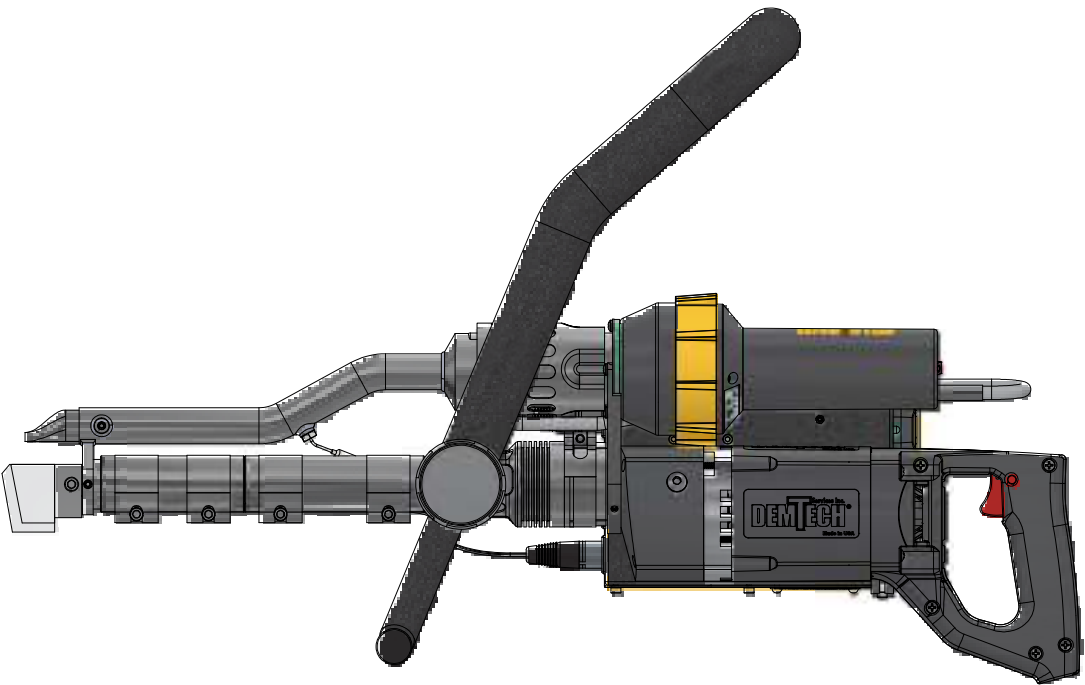
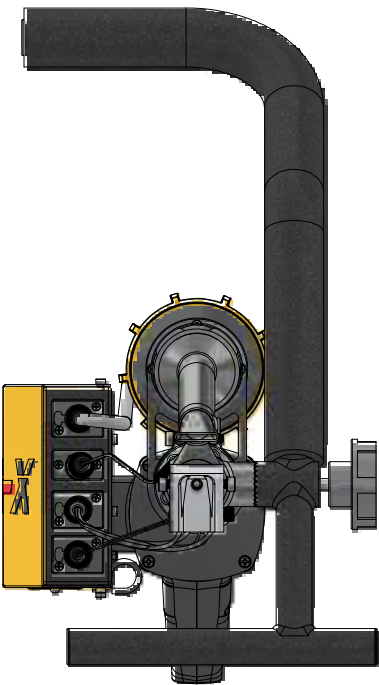
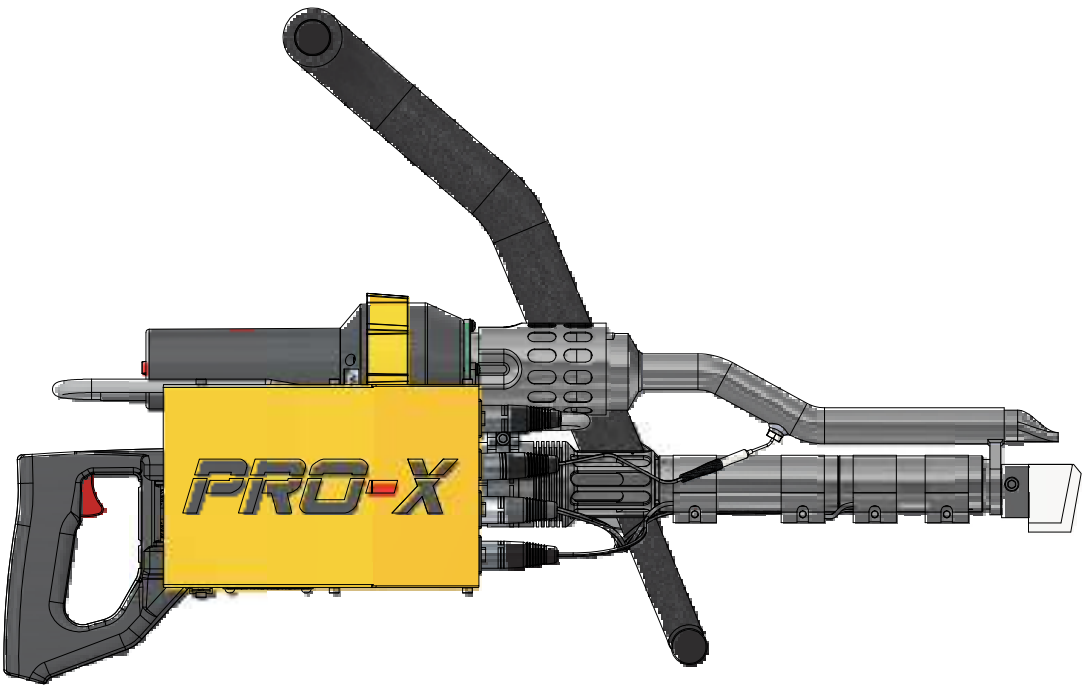
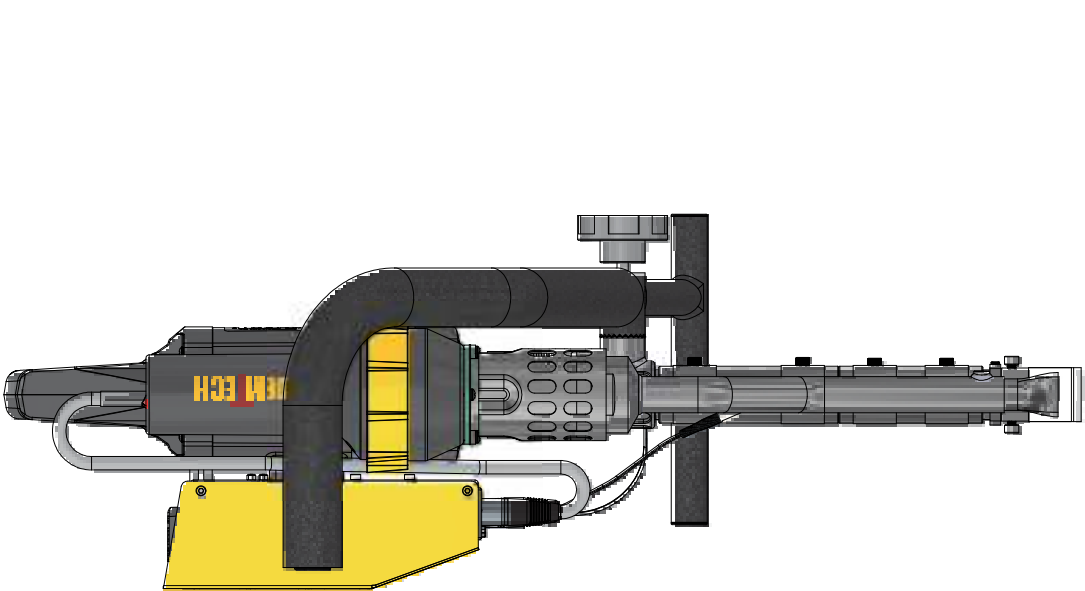
TABLE OF CONTENTS

1	ORDERING INSTRUCTIONS.....	PAGE 4
1.1	PX-13009 – ASSY, PRO-X EXTRUSION WELDER, W/ PRO-TACKER (Parts ID / Parts List).....	Pages 5-6
1.2	PX-14025 – ASSY, BARREL COMPLETE, PRO-X (Parts ID / Parts List).....	Pages 7-8
1.3	PX-14035 – ASSY, DRILL MOTOR COMPLETE, PRO-X (Parts ID / Parts List).....	Pages 9-10
1.4	PX-14028 – ASSY, MOTOR HOUSING, PRO-X (Parts ID / Parts List).....	Pages 11-12
1.5	PX-14032 -- ASSY GEAR BOX W/ ARMATURE CODE: YELLOW, PRO-X (Parts ID / Parts List).....	Page 13
1.6	PX-71403 -- ASSY, MOTOR ARMATURE, BEARING, FAN, CODE: YELLOW (Parts ID / Parts List).....	Page 14
1.7	PX-14030 - ASSY, GEAR BOX COMPLETE, W/O ARMATURE (Parts ID / Parts List).....	Pages 15-16
1.8	PX-14009 -- ASSY, CONTROL BOX COMPLETE, W/CONTROLLERS, PRO-X (Parts ID / Parts List).....	Pages 17-18
1.9	PX-14045 – ASSY, PREHEATER, PRO-TACKER, 220V, 2200W (Parts ID / Parts List).....	Pages 19-20
1.10	TS-600-XXXX/A -- ASSY'S, OPTIONAL TEFLON SHOES (Parts ID / Parts List).....	Page 21
1.11	TS-14108 -- ASSY, SHOE, OVERLAP FOR 1.0-2.0mm (40-80mil) SHEET THICKNESS (Parts List).....	Page 22

1 Ordering Instructions

Use the exploded assembly diagrams and related parts lists on the following pages to identify replacement parts for the Pro-X Extrusion Welder. 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.





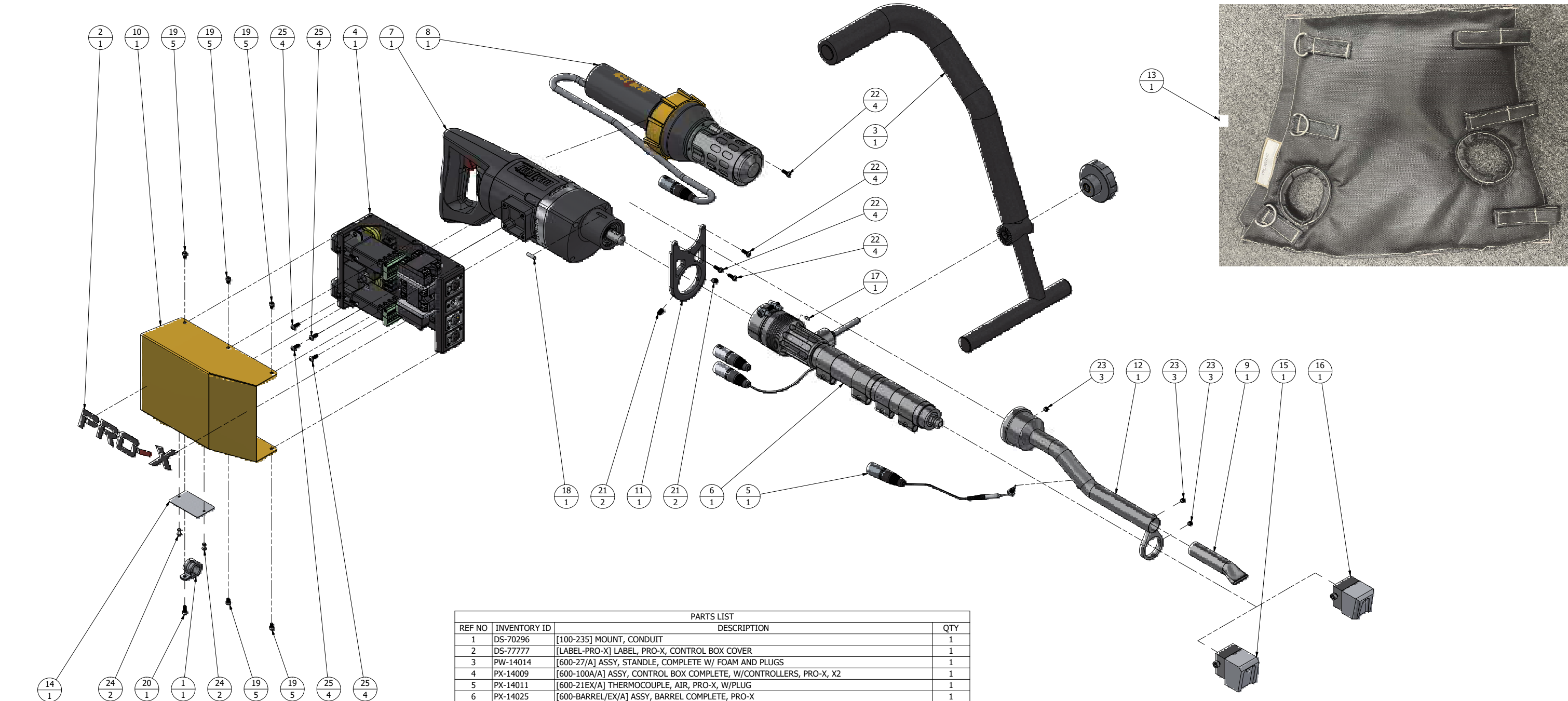
1. THE BALLOON SYMBOL, Θ , CONTAINS THE REFERENCE NUMBER (REF NO) AND QUANTITY (QTY) OF A SPECIFIED COMPONENT IN THIS ASSY. THE UPPER DIGIT IS THE REF NO AND THE LOWER DIGIT IS THE QTY REQUIRED FOR THIS ASSY.

NOTES (UNLESS OTHERWISE SPECIFIED):

[Return to Table of Contents](#)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN ODM	04/13/2022	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/	QA		[600-0100/PRT/A] ASSY, PRO-X HIGH	
XX ± .02	ANGLES ± 1°	MFG		OUTPUT EXTRUSION WELDER, 220V, °C/°F	
XXX ± .005	FRACTIONS ± 1/16	APPROVED		W/600-PREHEAT/2200/A	
MATERIAL				SIZE	DWG NO
SEE PARTS LIST				D	PX-13009
FINISH				SCALE	REV
N/A				1:3	B
DO NOT SCALE DRAWING				SHEET 1 OF 2	

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NON-SERVICEABLE ITEM
IF DAMAGED
CONTACT FACTORY

PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	DS-70296	[100-235] MOUNT, CONDUIT	1
2	DS-77777	[LABEL-PRO-X] LABEL, PRO-X, CONTROL BOX COVER	1
3	PW-14014	[600-27/A] ASSY, STANDLE, COMPLETE W/ FOAM AND PLUGS	1
4	PX-14009	[600-100/A] ASSY, CONTROL BOX COMPLETE, W/CONTROLLERS, PRO-X, X2	1
5	PX-14011	[600-21EX/A] THERMOCOUPLE, AIR, PRO-X, W/PLUG	1
6	PX-14025	[600-BARREL/EX/A] ASSY, BARREL COMPLETE, PRO-X	1
7	PX-14035	[600-DRILL/A] ASSY, DRILL MOTOR COMPLETE, PRO-X	1
8	PX-14045	[600-PREHEAT/2200/A] ASSY, PREHEATER, PRO-X, 220V, 2200W	1
9	PX-71287	[600-13] NOZZLE, PRE-HEAR	1
10	PX-71291	[600-14.1D] COVER, CONTROL BOX	1
11	PX-71341	[600-36] BRACKET, PREHEATER MOUNT, PRO-X	1
12	PX-71355	[600-38] MANIFOLD, PREHEATER, PRO-X	1
13	PX-71372	[605-043] INSULATION BLANKET, PRO-X	1
14	PX-71458	[600-399] SERIAL TAG, PRO-X	1
15	TS-14108	[TS-600-60/A] ASSY, SHOE, OVERLAP, W/MOUNT, FOR 1.0-2.0MM (40-80 MIL) SHEET THICKNESS	1
16	TS-14109	[TS-600-60-AEG/A] ASSY, SHOE, OVERLAP, NARROW FOR 1.0-2.0mm (40-80mil) SHEET THICKNESS	1
17	HARDWARE	PIN, DOWEL, 3/16" OD X 1/4" LONG, 18-8 STAINLESS STEEL	1
18	HARDWARE	PIN, DOWEL, 3/16" OD X 5/8" LONG, 18-8 STAINLESS STEEL	1
19	HARDWARE	SCREW, M4 X 0.7 X 6mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	5
20	HARDWARE	SCREW, M4 X 0.7 X 10mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	1
21	HARDWARE	SCREW, SET, M6 X 1 X 10mm LONG, CUP POINT ALLEN, 18-8 STAINLESS STEEL	2
22	HARDWARE	SCREW, M4 X 0.7 X 12mm LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	4
23	HARDWARE	SCREW, SET, M6 X 1 X 6mm LONG, CUP POINT ALLEN, 18-8 STAINLESS STEEL	3
24	HARDWARE	RIVET, 1/8" BLIND, DOME STYLE, STAINLESS STEEL	2
25	HARDWARE	SCREW, ROUND HEAD, THREAD FORMING, A B THREAD HI-LOW, #10 X 1/2", STAINLESS STEEL	4

[Return to Table of Contents](#)

DEMTECH Services, Inc.
Placerville, California

TITLE
[600-0100/PRT/A] ASSY, PRO-X HIGH
OUTPUT EXTRUSION WELDER, 220V, °C/°F,
W/600-PREHEAT/2200/A

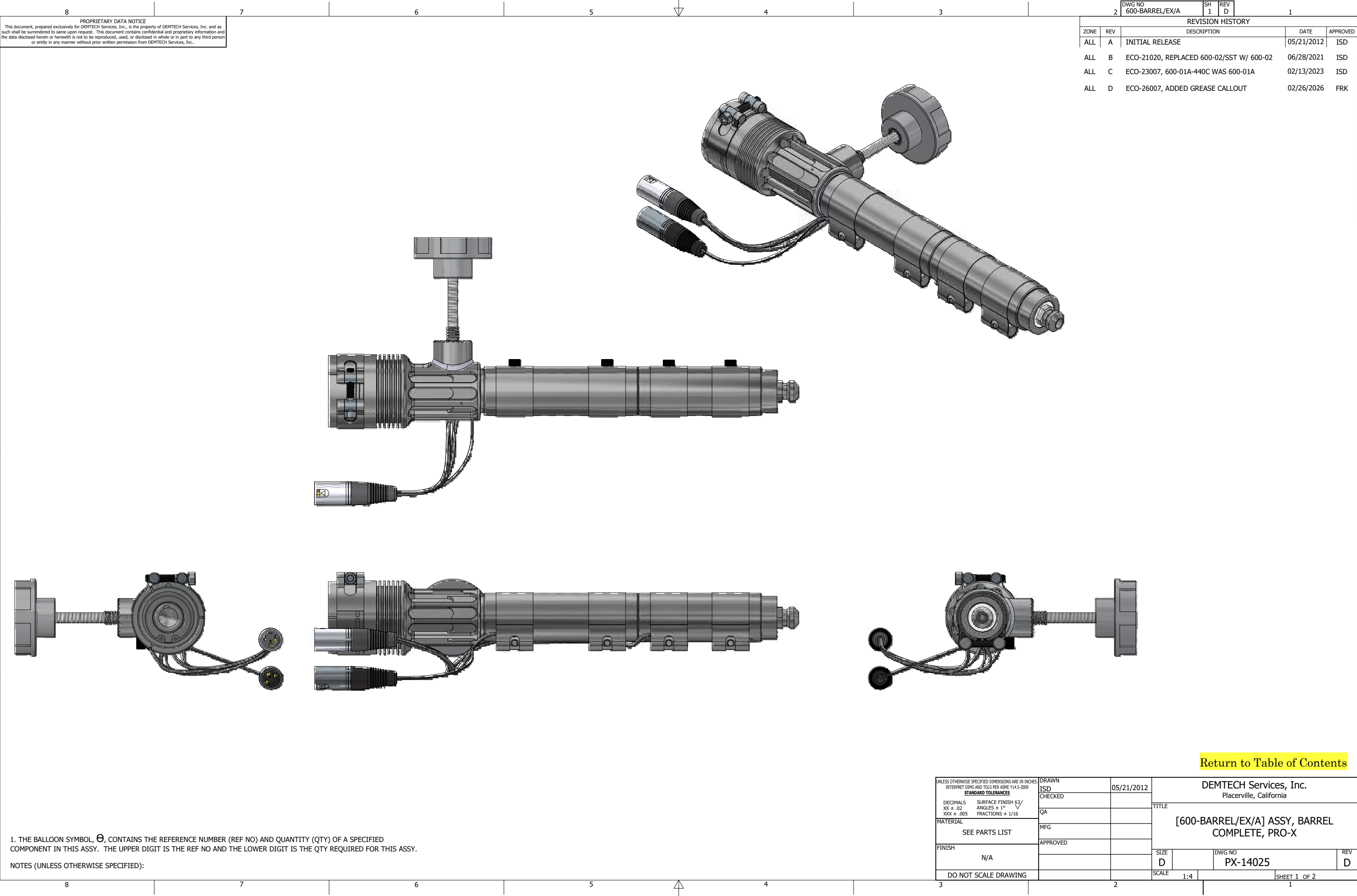
SIZE
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DWG NO
PX-13009

REV
B

SCALE
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SHEET 2 OF 2



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2		DWG NO 600-BARREL/EX/A	SH 1	REV D	1	
REVISION HISTORY						
ZONE	REV	DESCRIPTION			DATE	APPROVED
ALL	A	INITIAL RELEASE			05/21/2012	ISD
ALL	B	ECO-21020, REPLACED 600-02/SST W/ 600-02			06/28/2021	ISD
ALL	C	ECO-23007, 600-01A-440C WAS 600-01A			02/13/2023	ISD
ALL	D	ECO-26007, ADDED GREASE CALLOUT			02/26/2026	FRK

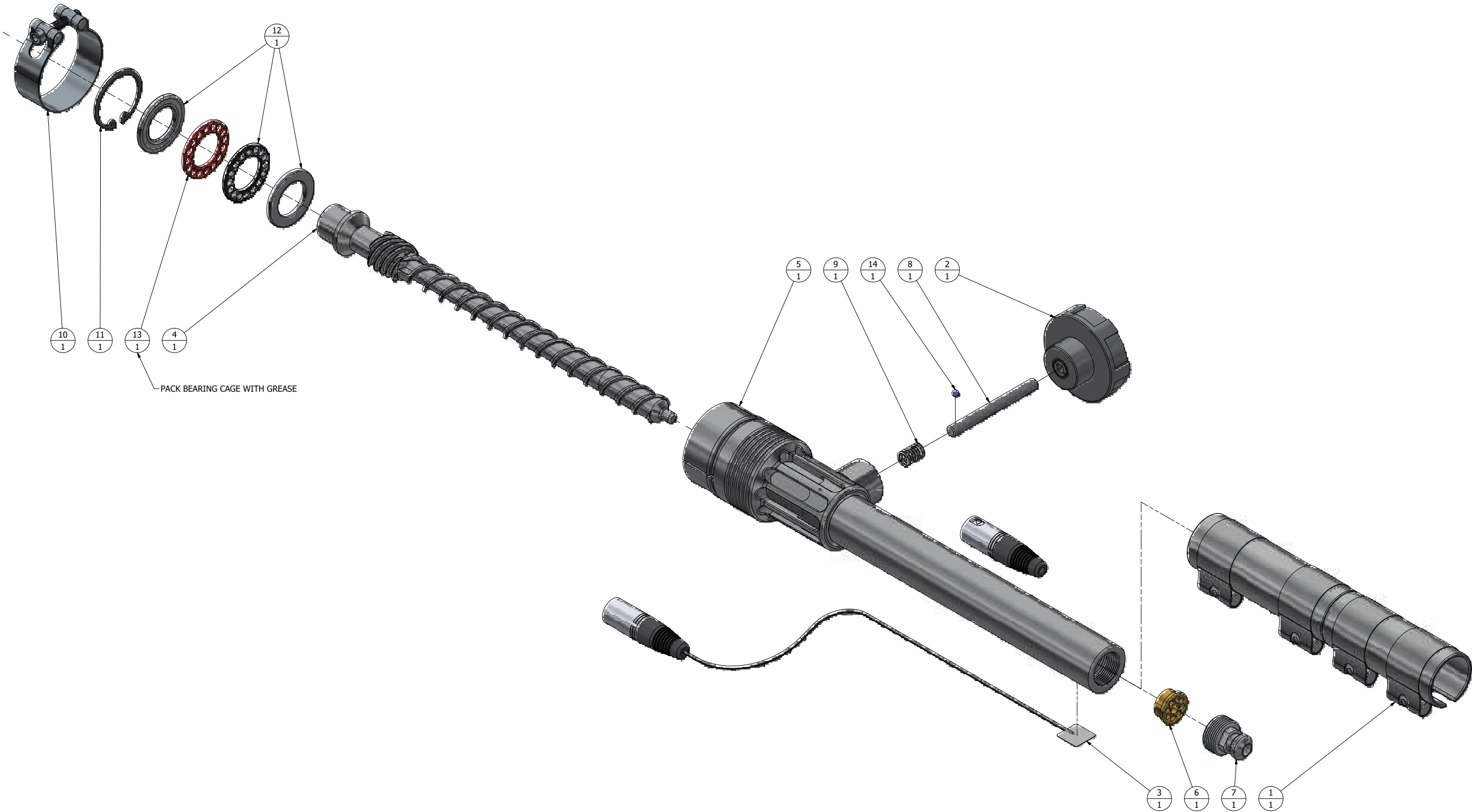
[Return to Table of Contents](#)

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN ISD	05/21/2012	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED			
DECIMALS SURFACE FINISH 63/ XX ± .02 ANGLES ± 1° V XXX ± .005 FRACTIONS ± 1/16		QA			
MATERIAL SEE PARTS LIST		MFG			
FINISH N/A		APPROVED		[600-BARREL/EX/A] ASSY, BARREL COMPLETE, PRO-X	
DO NOT SCALE DRAWING					
SCALE 1:4				SIZE D	DWG NO PX-14025
				REV D	
				SHEET 1 OF 2	

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-14005	[600-03EX/A] ASSY, HEAT BAND, PRO-X, PRO-X4, PRO-X5	1
2	PX-14012	[600-22/A] LOCKDOWN KNOB, W/INSERT	1
3	PX-14013	[600-23EX/A] THERMOCOUPLE, BARREL, PRO-X, W/PLUG	1
4	PX-71034	[600-01A-440C] SCREW, EXTRUSION, MIXING PLUG STYLE (440C MATERIAL)	1
5	PX-71237	[600-02/SST] BARREL, EXTRUSION, SST, PRO-X, PRO-X4, PRO-X5	1
6	PX-71241	[600-02B.1/BR] MIXING PLUG, BRONZE, PRO-X, PRO-X4, PRO-X5 (REPLACES 600-02B.1)	1
7	PX-71296	[600-20] NOZZLE, EXTRUDATE	1
8	PX-71305	[600-22.1] ALLTHREAD, STANDLE	1
9	PX-71311	[600-22.2] SPRING, STANDLE	1
10	PX-71333	[600-31] CLAMP, BARREL	1
11	PX-71376	[600-50] SNAP RING, THRUST BEARING & DRIVE SHAFT, S.S.	1
12	PX-71423	[600-D20] BEARING, THRUST	1
13	XM-71610	[605-GREASE] REDLINE CV-2 W/MOLLY	1
14	HARDWARE	THREAD SEALANT, FOR PNEUMATIC FITTINGS, PURPLE #545	1

[Return to Table of Contents](#)

DEMTECH Services, Inc.
Placerville, California

TITLE
[600-BARREL/EX/A] ASSY, BARREL
COMPLETE, PRO-X

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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE	05/21/2012	ISD
ALL	B	ECO-26005, UPDATE PARTS LIST STRUCTURE	02/23/2026	FRK



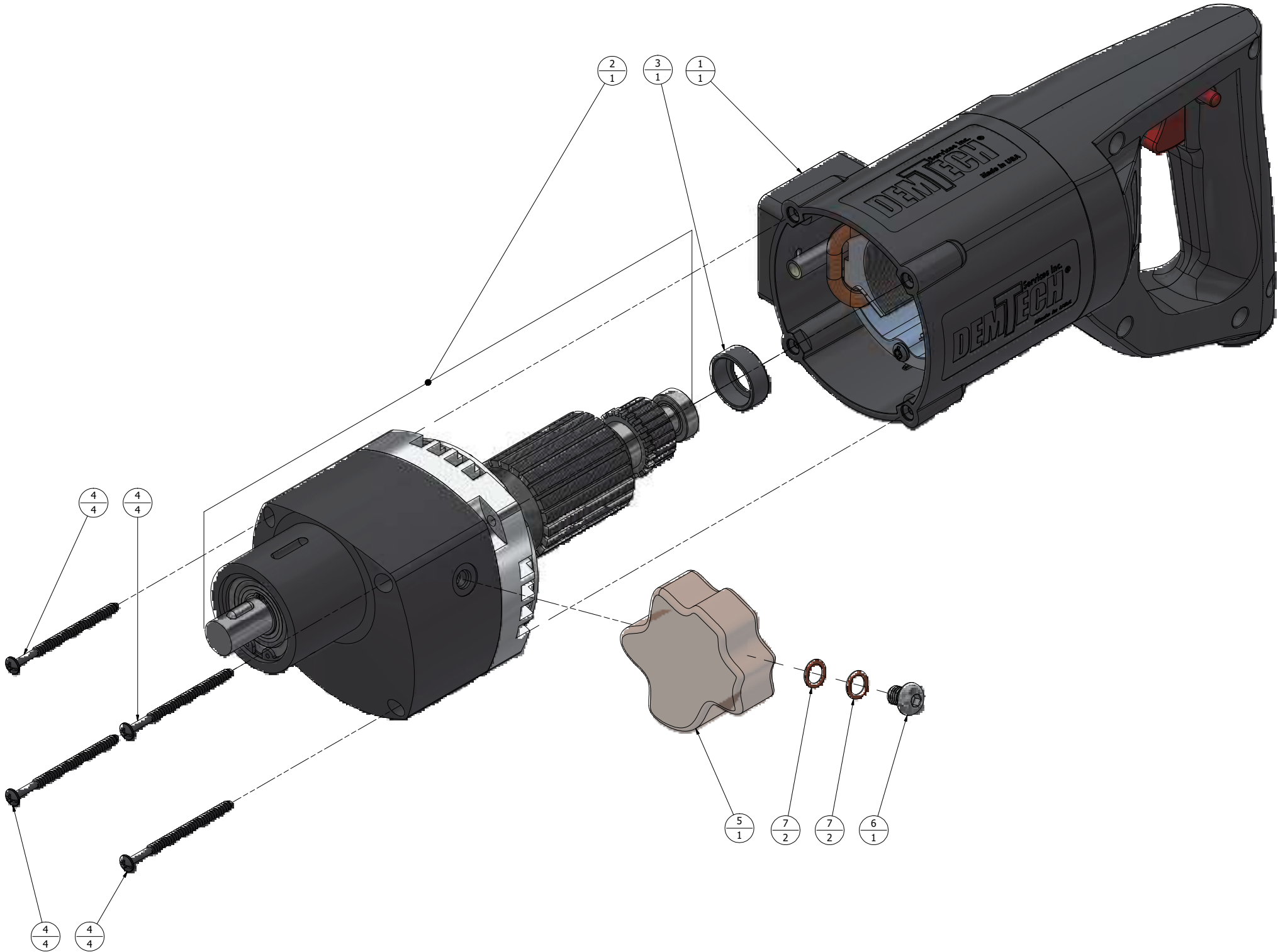
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES		DRAWN ISD	05/21/2012	DEMTECH Services, Inc. Placerville, California	
DECIMALS XX ± .02 XXX ± .005	SURFACE FINISH 63/ ANGLES ± 1° FRACTIONS ± 1/16	CHECKED		TITLE	
MATERIAL SEE PARTS LIST		QA		[600-DRILL/A] ASSY, DRILL MOTOR COMPLETE, PRO-X	
FINISH N/A		MFG		SIZE D	DWG NO PX-14035
DO NOT SCALE DRAWING		APPROVED		REV B	
		SCALE 3:4		SHEET 1 OF 2	

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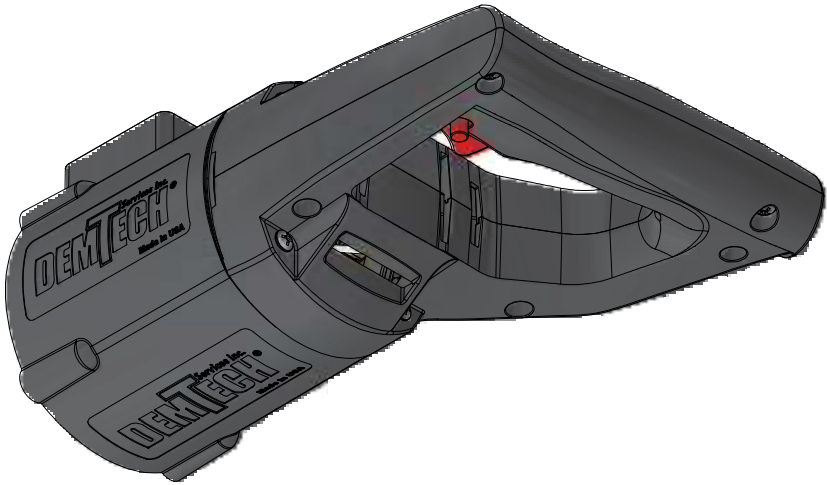
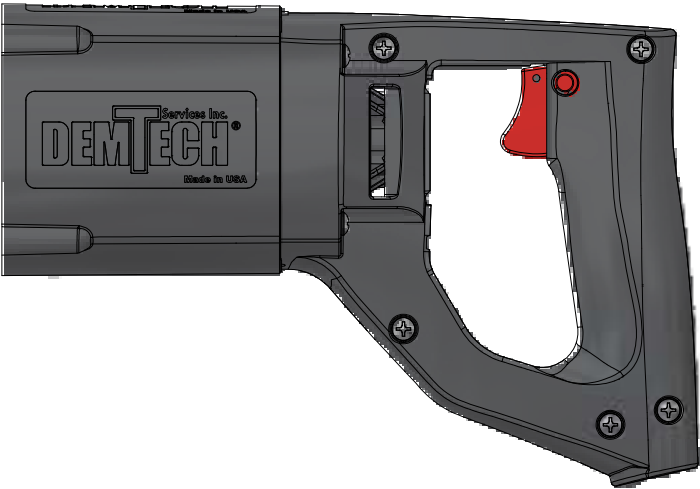
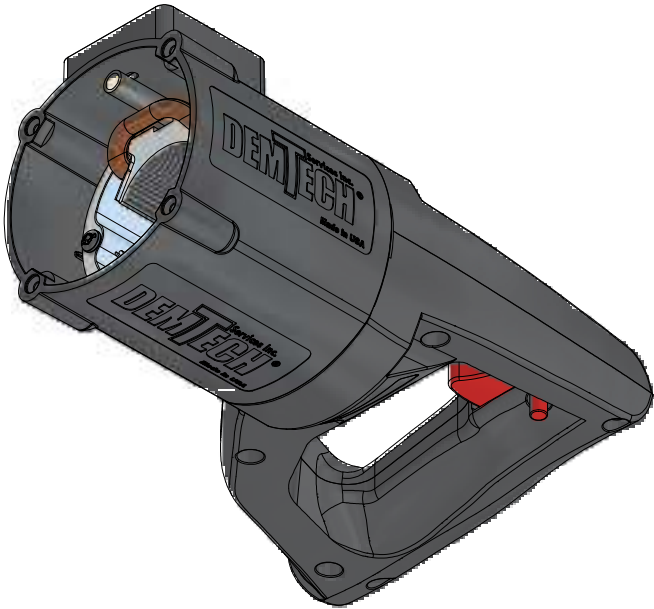
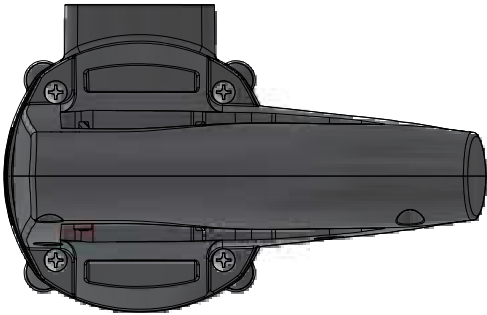
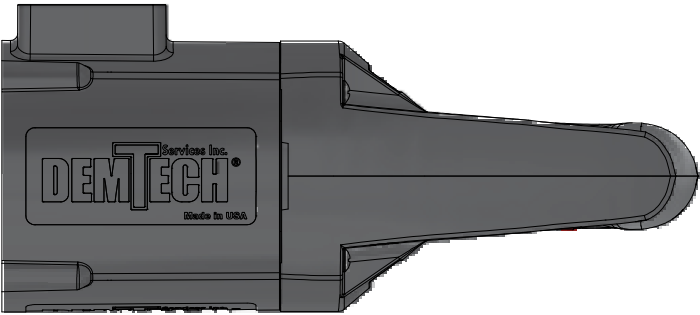
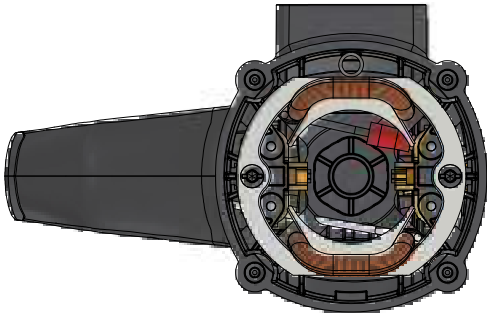
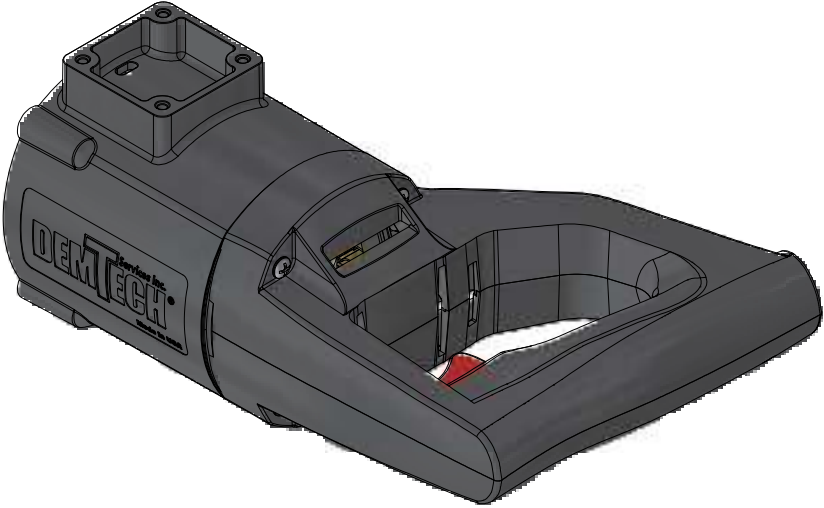
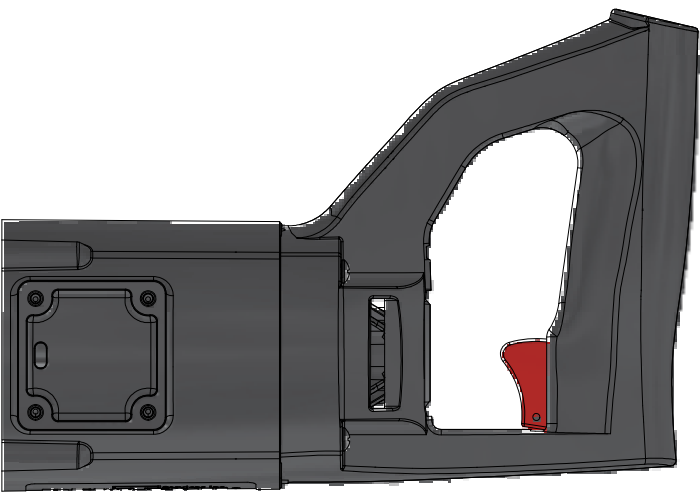
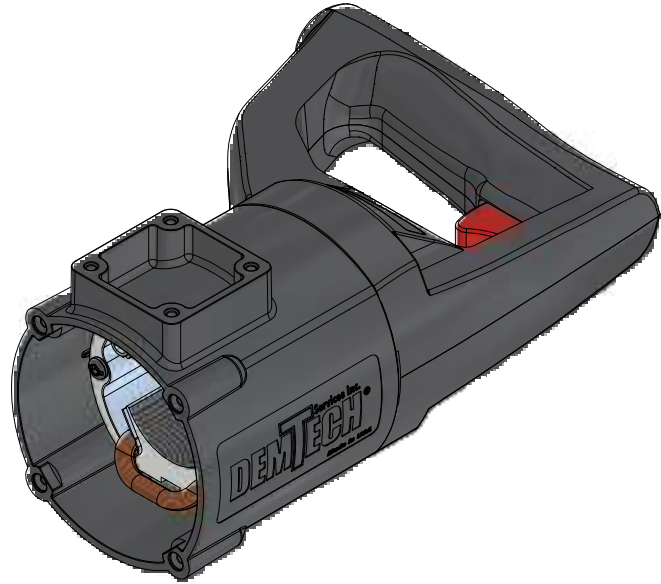
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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-14028	[600-D08/A] ASSY, HOUSING, MOTOR, PRO-X, W/FIELD COIL/D-HANDLE KIT ETC.	1
2	PX-14032	[600-D100A/A] ASSY, GEAR BOX COMPLETE, W/ ARMATURE, CODE: YELLOW	1
3	PX-71429	[600-D23] BEARING CUP, ARMATURE	1
4	PX-71431	[600-D24.1EX] SCREW, GEAR HOUSING	4
5	PX-71448	[600-OIL] OIL, REDLINE 75W90 HIGH PERFORMANCE SYNTHETIC GEAR OIL, (5 OZ CAPACITY)	1
6	HARDWARE	SCREW, M8 X 1.25 X 10mm LONG, BUTTON HEAD CAP, 18-8 STAINLESS STEEL	1
7	HARDWARE	WASHER, .328" ID X .482" OD X .020" THICK, COPPER	2

DEMTECH Services, Inc. Placerville, California			
TITLE [600-DRILL/A] ASSY, DRILL MOTOR COMPLETE, PRO-X			
SIZE D	DWG NO PX-14035		REV B
SCALE 1:1	SHEET 2 OF 2		

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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE	05/21/2012	ISD
ALL	B	REFLECT VARIOUS COMPONENT CHANGES	05/15/2017	ISD
ALL	C	ECO-26005, CORRECTED HARDWARE AND PLASTIC FEATURES	02/23/2026	FRK



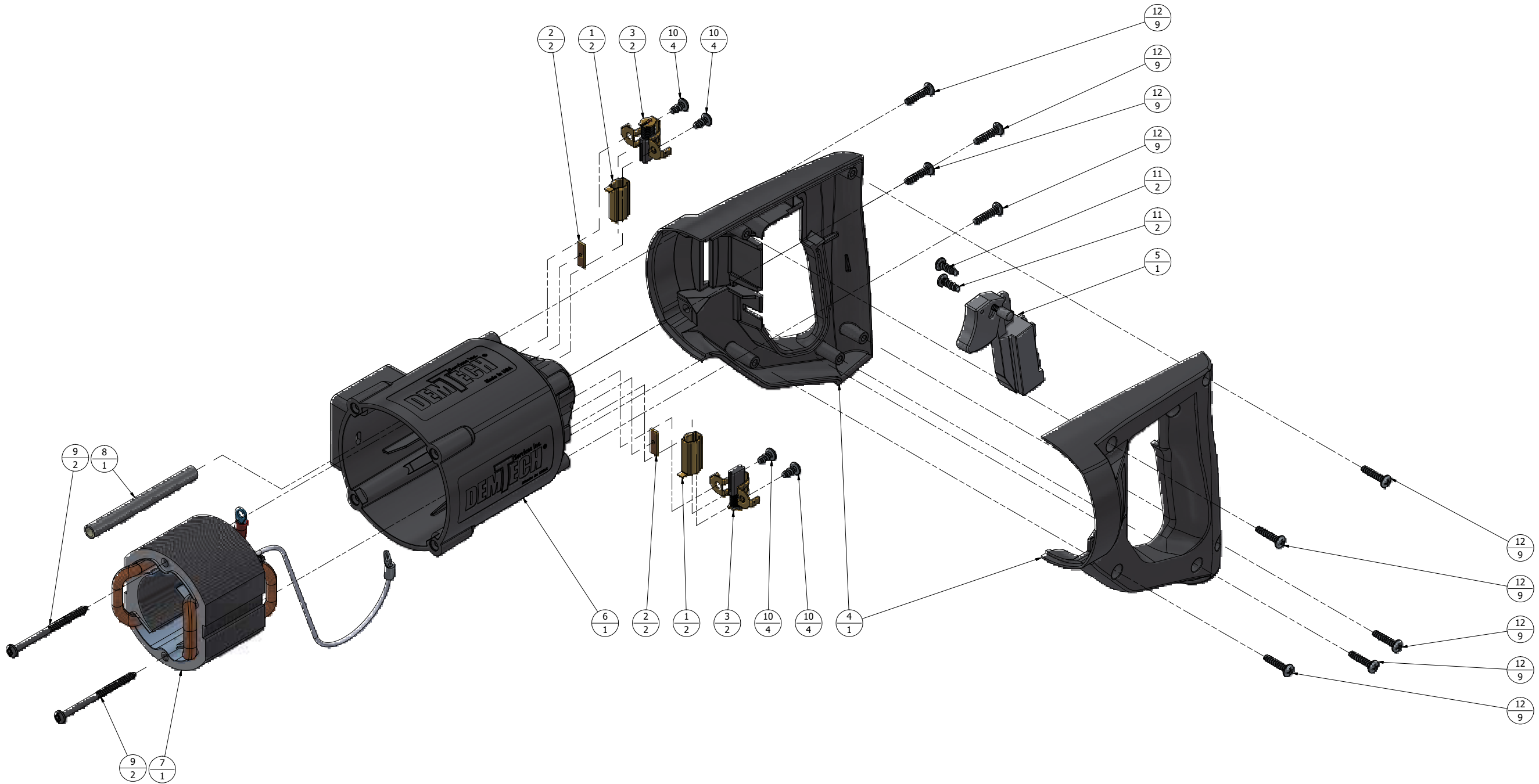
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DECIMALS XX ± .02	SURFACE FINISH 63/ ANGLES ± 1°	CHECKED		TITLE	
XXX ± .005	FRACTIONS ± 1/16	QA		[600-D08/A] ASSY, HOUSING, MOTOR, PRO-X, W/FIELD COIL/D-HANDLE KIT ETC.	
MATERIAL SEE PARTS LIST		MFG		SIZE D	DWG NO PX-14028
FINISH N/A		APPROVED		SCALE 3:4	REV C
DO NOT SCALE DRAWING				SHEET 1 OF 2	

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-71405	[600-D03] BRUSH HOLDER	2
2	PX-71406	[600-D04] BRUSH INSULATOR	2
3	PX-71407	[600-D05] BRUSH, SOLD INDIVIDUALLY	2
4	PX-71408	[600-D06] "D" HANDLE KIT	1
5	PX-71409	[600-D07] TRIGGER SWITCH	1
6	PX-71411	[600-D08] HOUSING, MOTOR, PRO-X, X5, XMV2, XMPV2	1
7	PX-71425	[600-D22] FIELD COIL, 230V, STYLE "A", CODE: YELLOW	1
8	PX-71428	[600-D22/S] SLEEVING, FIELD WINDING WIRES	1
9	PX-71431	[600-D24.1EX] SCREW, FIELD COIL, GEAR CASE TO HOUSING	2
10	HARDWARE	SCREW, #10 X 3/8" LONG, PAN HEAD PHILLIPS, HIGH-LOW, ZINC PLATED STEEL	4
11	HARDWARE	SCREW, #10 X 1/2" LONG, PAN HEAD PHILLIPS, HIGH-LOW, ZINC PLATED STEEL	2
12	HARDWARE	SCREW, #8 X 3/4" LONG, PAN HEAD PHILLIPS, TRI-LOB, 18-8 STAINLESS STEEL	9

[Return to Table of Contents](#)

DEMTECH Services, Inc.
Placerville, California

TITLE
[600-D08/A] ASSY, HOUSING, MOTOR,
PRO-X, W/FIELD COIL/D-HANDLE KIT ETC.

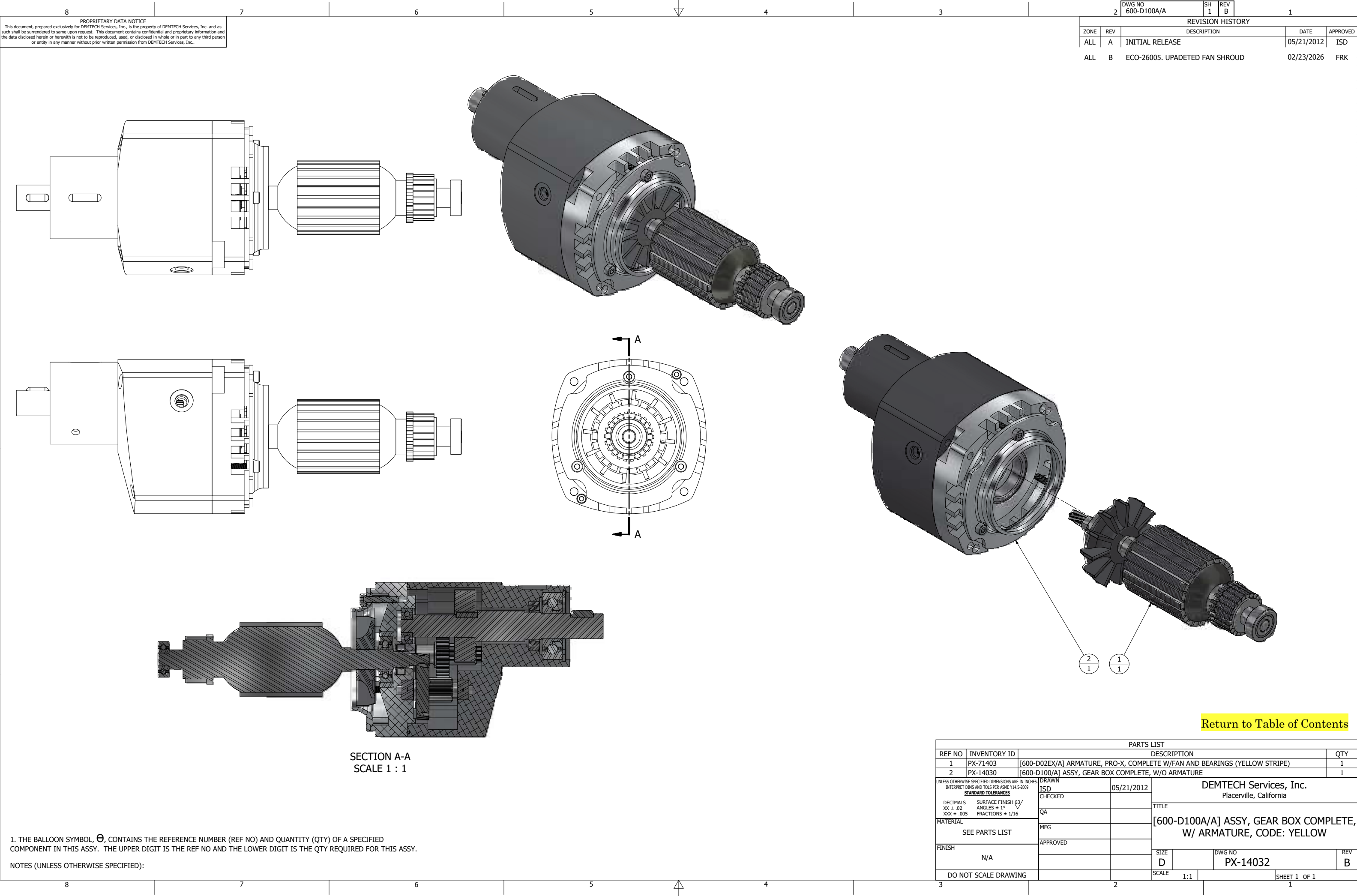
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PX-14028

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SHEET 2 OF 2



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2		DWG NO 600-D100A/A	SH 1	REV B	1	
REVISION HISTORY						
ZONE	REV	DESCRIPTION			DATE	APPROVED
ALL	A	INITIAL RELEASE			05/21/2012	ISD
ALL	B	ECO-26005. UPADETED FAN SHROUD			02/23/2026	FRK

[Return to Table of Contents](#)

SECTION A-A
SCALE 1 : 1

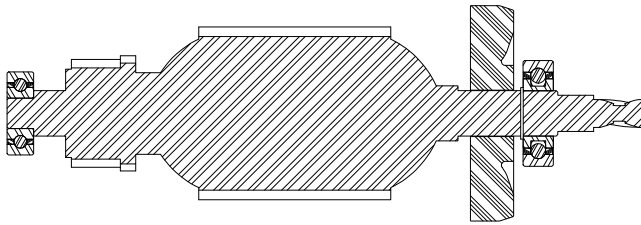
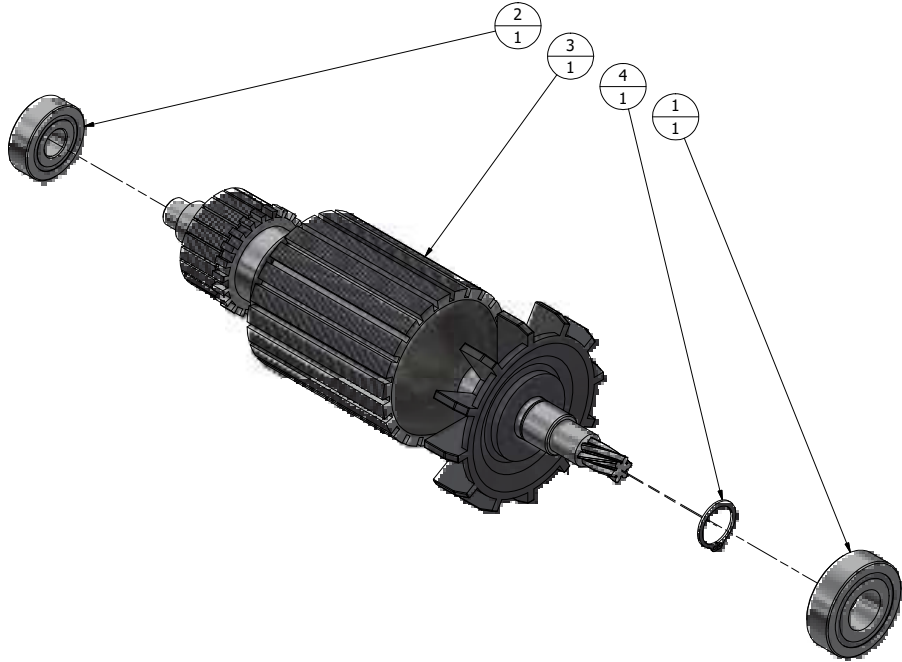
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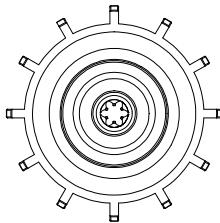
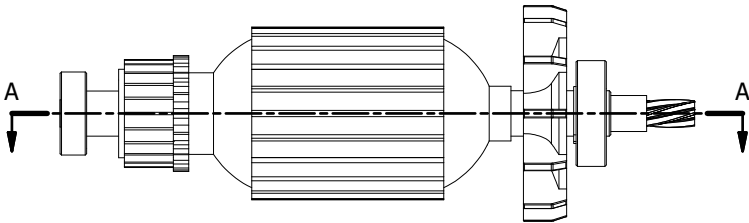
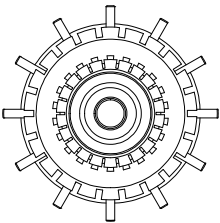
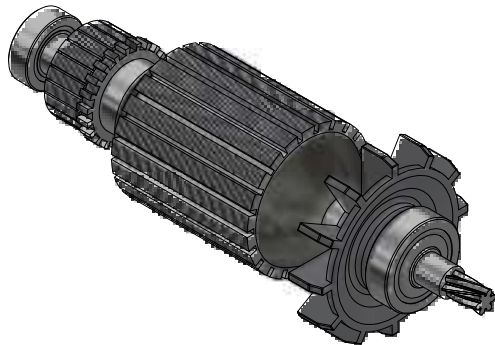
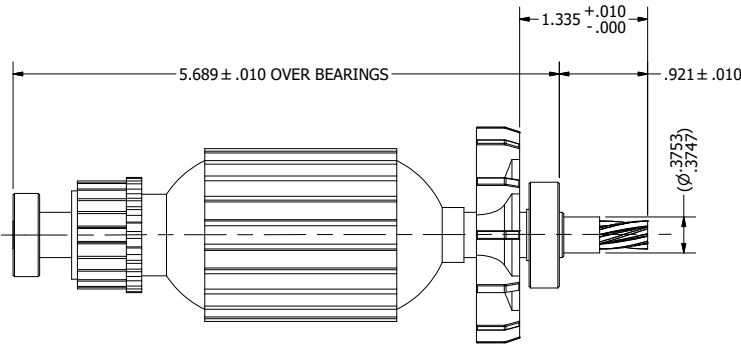
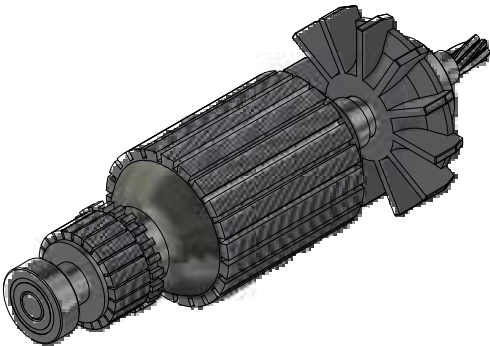
PARTS LIST					
REF NO	INVENTORY ID	DESCRIPTION	QTY		
1	PX-71403	[600-D02EX/A] ARMATURE, PRO-X, COMPLETE W/FAN AND BEARINGS (YELLOW STRIPE)	1		
2	PX-14030	[600-D100/A] ASSY, GEAR BOX COMPLETE, W/O ARMATURE	1		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES DECIMALS XX ± .02 ANGLES ± 1° XXX ± .005 SURFACE FINISH 63/ FRACTIONS ± 1/16		DRAWN ISD	05/21/2012	DEMTECH Services, Inc. Placerville, California	
		CHECKED			
		QA			
		MFG			
MATERIAL SEE PARTS LIST		APPROVED		TITLE [600-D100A/A] ASSY, GEAR BOX COMPLETE, W/ ARMATURE, CODE: YELLOW	
FINISH N/A					
DO NOT SCALE DRAWING					
		SIZE D		DWG NO PX-14032	REV B
		SCALE 1:1		SHEET 1 OF 1	

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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	F	REDRAW IN NEW CAD SYSTEM W/ CHANGES	05/15/2017	ISD
ALL	G	ECO-23044, UPDATED BOM TO REFLECT CURRENT PART NUMBERS	11/07/2023	ODM
ALL	H	ECO-26005, REFLECTS CURRENT FAN	02/23/2026	FRK



SECTION A-A
SCALE 1 : 1



2. **NOT SOLD SEPERATLY:** REF NO. 3 / INVENTORY ID RM-71404.

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):

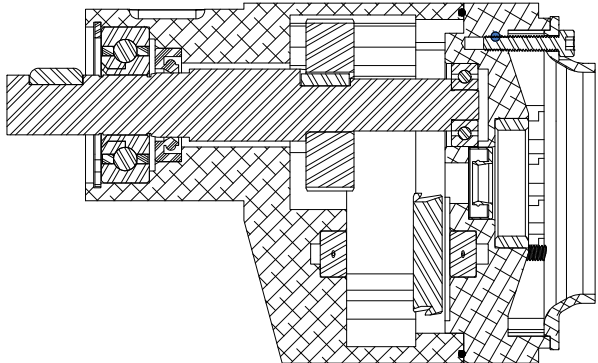
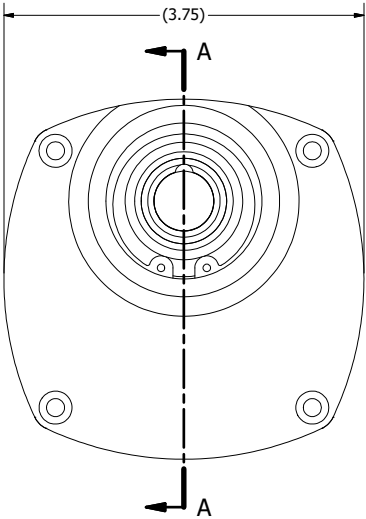
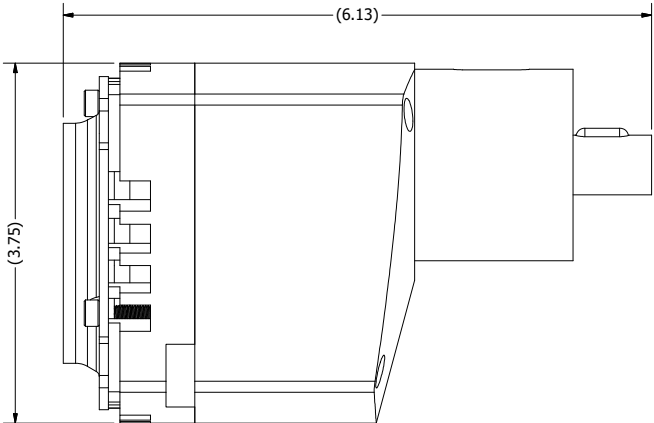
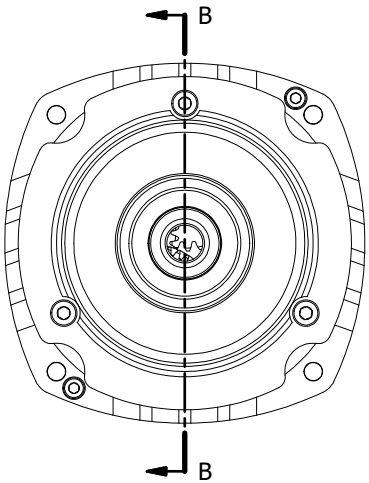
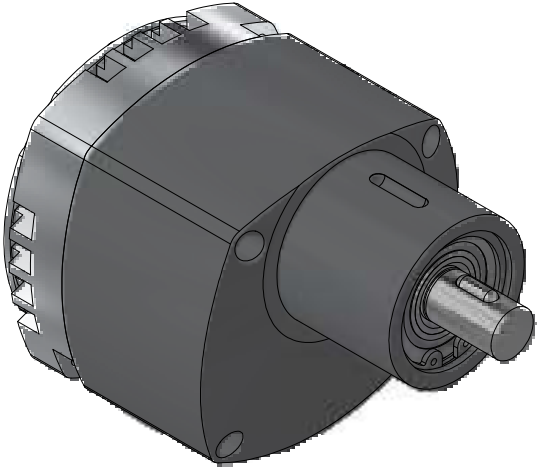
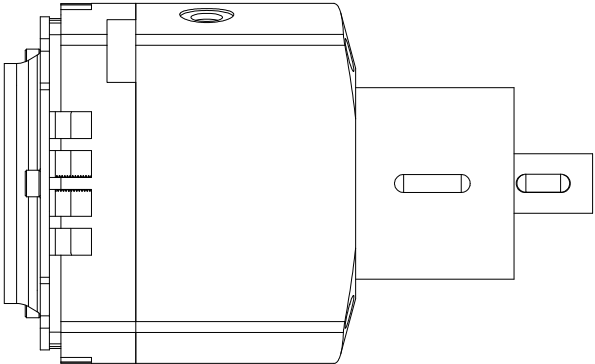
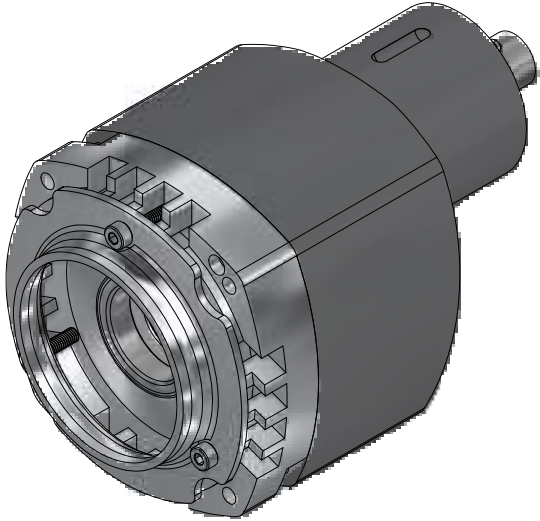
PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-71420	[600-D16] BEARING, 12mm ID X 28mm OD X 8mm WIDE, DOUBLE SEALED	1
2	PX-71422	[600-D18] BEARING, 8mm ID X 22mm OD X 7mm WIDE, DOUBLE SEALED	1
3	RM-71404	[600-D02EX] AMRMATURE COMPLETE, W/FAN, NO BEARING, 220V (YELLOW DOT)	1
4	HARDWARE	SNAP RING, 15/32" OD SHAFT, EXTERNAL RETAINING, BLACK PHOSPHATE SPRING STEEL	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES		DRAWN ISD	05/15/2017	DEMTECH Services, Inc. Placerville, California	
DECIMALS XX ± .02		CHECKED		TITLE	
SURFACE FINISH 63/ ANGLES ± 1°		QA		[600-D02EX/A] ASSY, MOTOR ARMATURE / BEARINGS / FAN, CODE: YELLOW	
FRACTIONS ± 1/16		MFG			
MATERIAL		APPROVED		SIZE D	DWG NO PX-71403
SEE NOTES				REV H	
FINISH N/A				SCALE 1:1	SHEET 1 OF 1
DO NOT SCALE DRAWING					

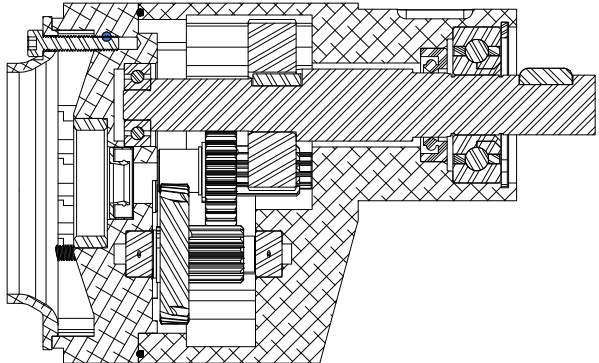
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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE	05/21/2012	ISD
ALL	B	REFLECT CHANGES TO 600-D01EX & 600-D24EX, ADD 2X M3 SHCS	07/01/2019	ISD
ALL	C	ECO-25010, REPLACE 600-D26 DISC W/ 603-D27 SHROUD	06/16/2025	ISD
ALL	D	ECO-26001, RELFECT CHANGES TO P/N 603-D27	01/06/2026	FRK



SECTION A-A
SCALE 1 : 1



SECTION B-B
SCALE 1 : 1

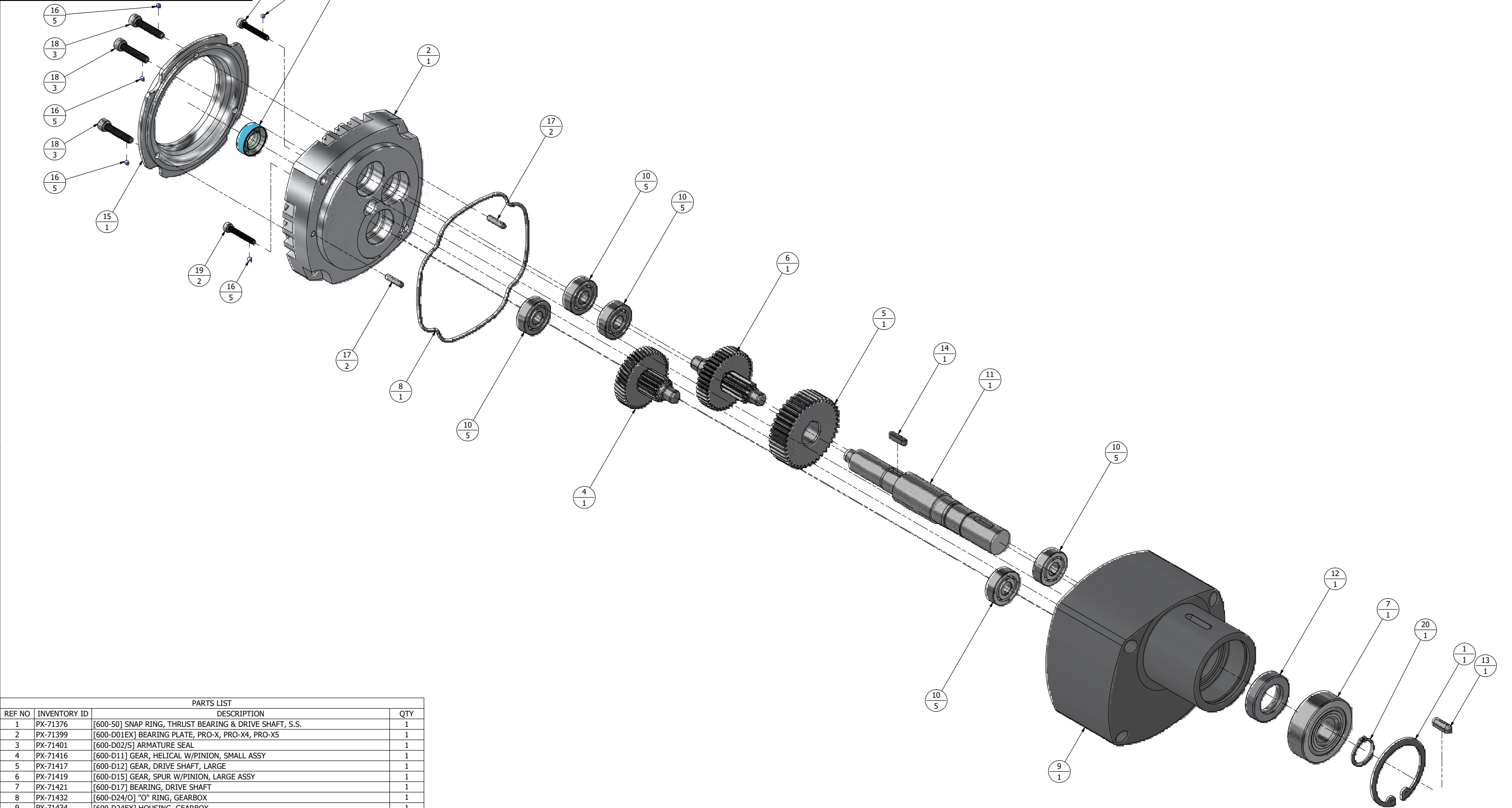
1. THE BALLOON SYMBOL, Θ , CONTAINS THE REFERENCE NUMBER (REF NO) AND QUANTITY (QTY) OF A SPECIFIED COMPONENT IN THIS ASSY. THE UPPER DIGIT IS THE REF NO AND THE LOWER DIGIT IS THE QTY REQUIRED FOR THIS ASSY.

NOTES (UNLESS OTHERWISE SPECIFIED):

[Return to Table of Contents](#)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009 STANDARD TOLERANCES		DRAWN ISD	05/21/2012	DEMTECH Services, Inc. Placerville, California	
DECIMALS XX ± .02	SURFACE FINISH 63/ ANGLES ± 1°	CHECKED		TITLE	
XXX ± .005	FRACTIONS ± 1/16	QA		[600-D100/A] ASSY, GEAR BOX COMPLETE, W/O ARMATURE	
MATERIAL SEE PARTS LIST		MFG		SIZE D	DWG NO PX-14030
FINISH N/A		APPROVED		REV D	
DO NOT SCALE DRAWING		SCALE 1:1		SHEET 1 OF 2	

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-71376	[600-50] SNAP RING, THRUST BEARING & DRIVE SHAFT, S.S.	1
2	PX-71399	[600-D01EX] BEARING PLATE, PRO-X, PRO-X4, PRO-X5	1
3	PX-71401	[600-D02/S] ARMATURE SEAL	1
4	PX-71416	[600-D11] GEAR, HELICAL W/PINION, SMALL ASSY	1
5	PX-71417	[600-D12] GEAR, DRIVE SHAFT, LARGE	1
6	PX-71419	[600-D15] GEAR, SPUR W/PINION, LARGE ASSY	1
7	PX-71421	[600-D17] BEARING, DRIVE SHAFT	1
8	PX-71432	[600-D24/O] "O" RING, GEARBOX	1
9	PX-71434	[600-D24EX] HOUSING, GEARBOX	1
10	PX-71435	[600-D25] BEARING, GEARBOX	5
11	PX-71439	[600-D30.0] OUTPUT SHAFT	1
12	PX-71441	[600-D30/S] SEAL, OUTPUT SHAFT	1
13	PX-71443	[600-D31EX] KEY, OUTPUT SHAFT TO EXTRUSION SCREW	1
14	PX-71444	[600-D31K] KEY, LARGE GEAR TO OUTPUT SHAFT	1
15	XM-83062	[603-D27] SHROUD, FAN, ARMATURE	1
16	HARDWARE	ADHESIVE, THREADLOCKING LIQUID, BLUE, THICK MEDIUM STRENGTH	5
17	HARDWARE	PIN, DOWEL, 1/8" OD X 1/2" LONG, 18-8 STAINLESS STEEL	2
18	HARDWARE	SCREW, M4 X 0.7 X 20mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	3
19	HARDWARE	SCREW, M3 X 0.5 X 20mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	2
20	HARDWARE	RETAINING RING, EXTERNAL, 5/8" SHAFT, BLACK PHOSPHATE STEEL	1

DEMTECH Services, Inc.
Placerville, California

TITLE
[600-D100/A] ASSY, GEAR BOX COMPLETE,
W/O ARMATURE

SIZE
D

DWG NO
PX-14030

REV
D

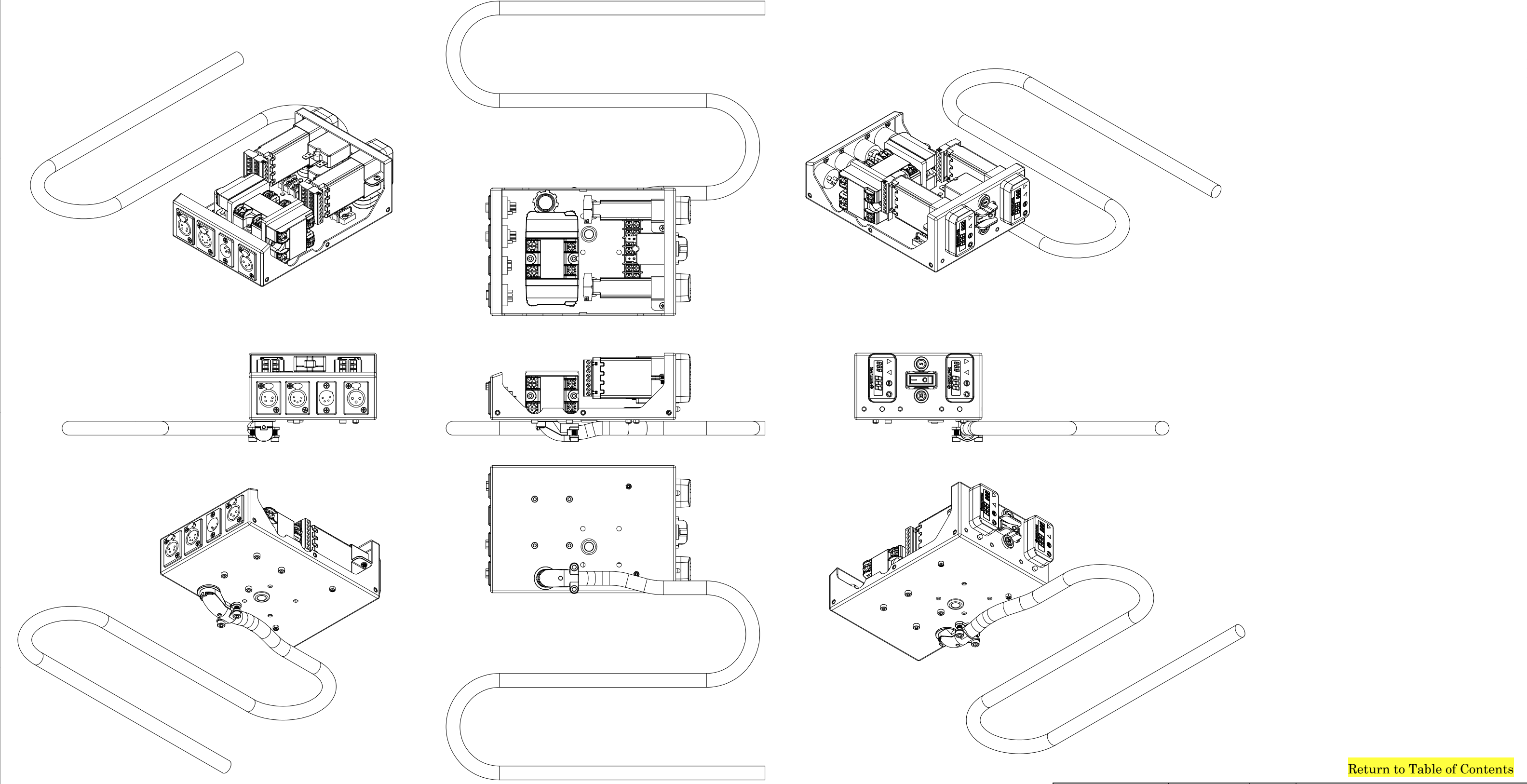
SCALE
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SHEET 2 OF 2

[Return to Table of Contents](#)

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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE TO PRODUCTION	06/09/2014	ISD
ALL	B	ECO-26004, HOLE SIZES, LOCATIONS ADJUSTED	02/18/2026	FRK



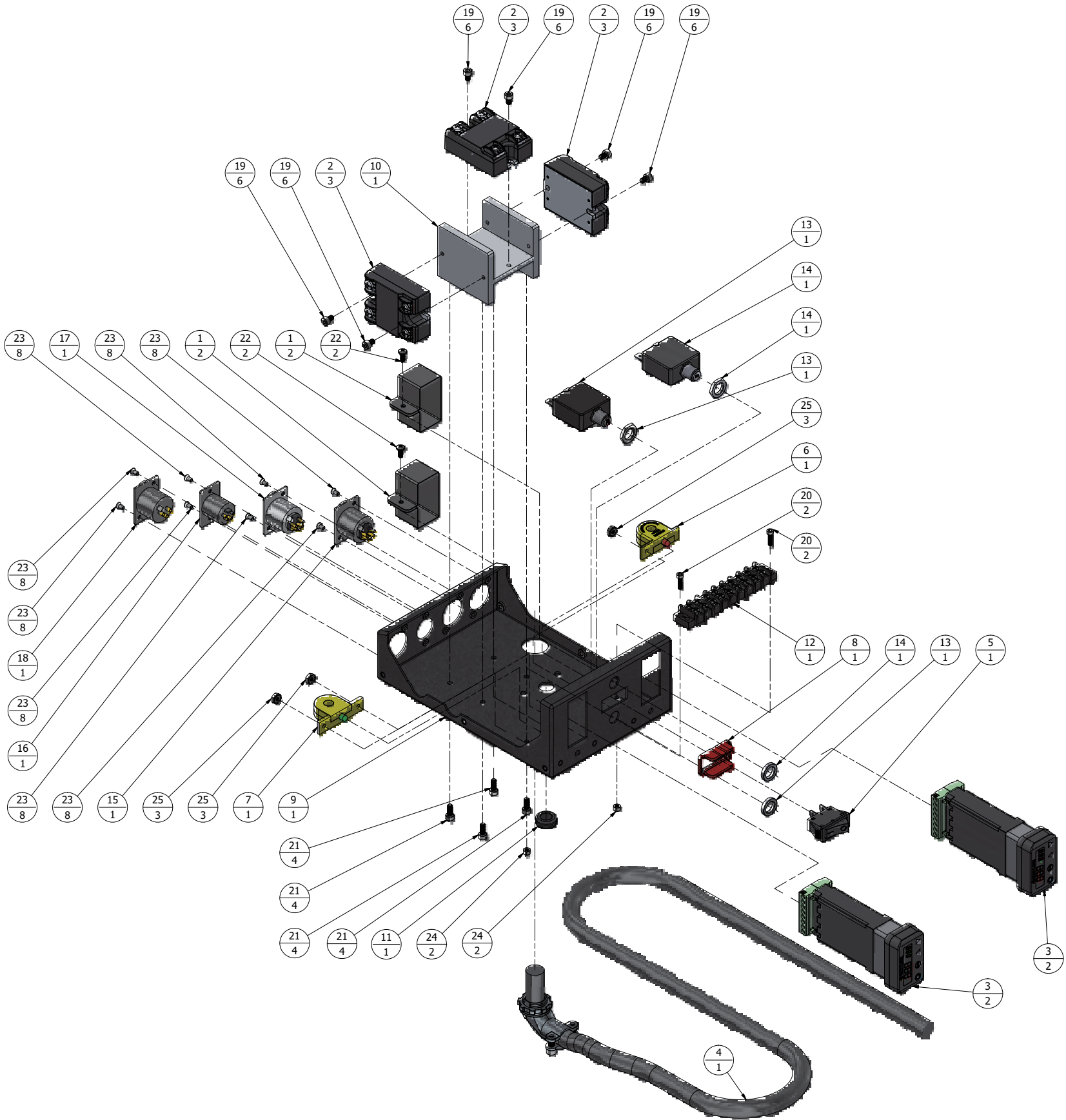
[Return to Table of Contents](#)

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		DRAWN ISD	06/09/2014	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS XX ± .02	SURFACE FINISH 63/ ANGLES ± 1°	QA		[600-100A/A] ASSY, CONTROL BOX COMPLETE, W/CONTROLLERS, PRO-X, X2	
XX ± .005	FRACTIONS ± 1/16	MFG		SIZE D	DWG NO PX-14009
MATERIAL SEE PARTS LIST		APPROVED		REV B	
FINISH N/A				SCALE 1:2	SHEET 1 OF 2
DO NOT SCALE DRAWING					

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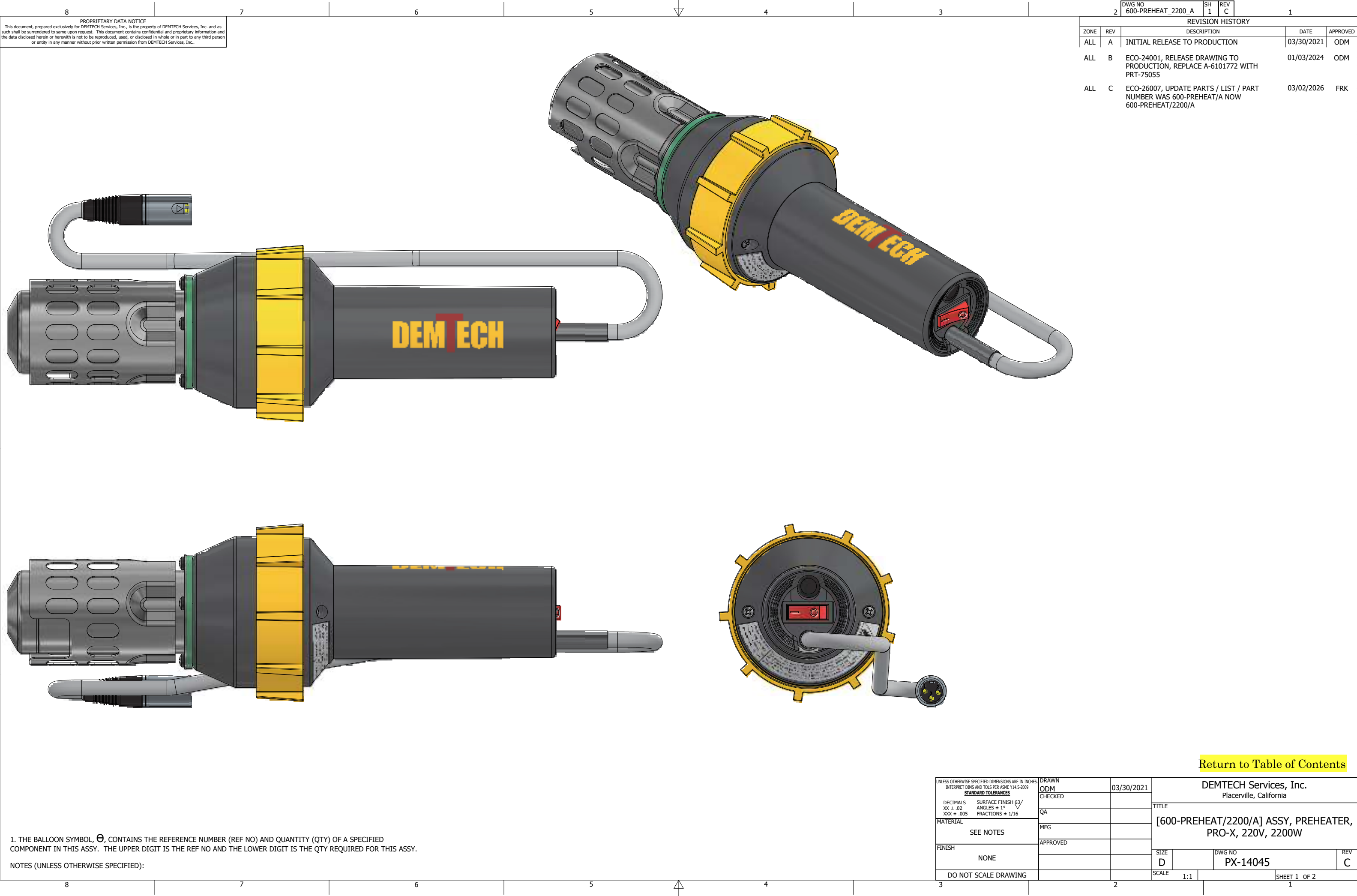
PARTS LIST			
ITEM	ORDER NO	DESCRIPTION	QTY
1	DS-70363	[100-427B] BRACKET, MOUNTING, CONTROLLER	2
2	DS-70364	[100-431] RELAY, SOLID STATE, 25A, 3-32VDC, 240V	3
3	DS-70365	[100-427/A] CONTROLLER, WATLOW, W/MOUNTING BRACKET & SPACER	2
4	PX-14023	[600-475/A] ASSY, POWER CORD W/CLAMP	1
5	PX-71274	[600-06] [A-6106186] [DS-71807] SWITCH, PREHEATER, BLOWER ON/OFF	1
6	PX-71284	[600-09] CURRENT INDICATOR, RED	1
7	PX-71285	[600-10] CURRENT INDICATOR, GREEN	1
8	PX-71289	[600-06G] GUARD, CONTROLLER SWITCH	1
9	PX-71290	[600-14] BOX, CONTROL, PRO-X2	1
10	PX-71292	[600-14.3] BRACKET, RELAY MOUNTING	1
11	PX-71294	[600-14/G] GROMMET, CONTROL BOX	1
12	PX-71330	[600-28] TERMINAL STRIP	1
13	PX-71331	[600-29] CIRCUIT BREAKER, 25A	1
14	PX-71332	[600-29EX] CIRCUIT BREAKER, 5A	1
15	PX-71368	[600-39EX] RECEPTACLE, HEAT BAND, T/C	1
16	PX-71369	[600-40EX] RECEPTACLE, PRE HEAT, T/C	1
17	PX-71370	[600-41EX] RECEPTACLE, HEATBAND	1
18	PX-71371	[600-42EX] RECEPTACLE, PRE HEAT	1
19	HARDWARE	SCREW, M4 X 0.7 X 6mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	6
20	HARDWARE	SCREW, M3 X 0.5 X 12mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	2
21	HARDWARE	SCREW, M4 X 0.7 X 10mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	4
22	HARDWARE	SCREW, M3.5 X 0.6 x 8mm LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	2
23	HARDWARE	SCREW, M3 X 0.5 X 6mm LONG, FLAT HEAD PHILLIPS, 18-8 STAINLESS STEEL	8
24	HARDWARE	NUT, M3-0.5 X 5.5mm WIDE X 4mm HIGH, HEX LOCK, NYLON-INSERT, 18-8 STAINLESS STEEL	2
25	HARDWARE	NUT, 6-32 HEX W/ EXTERNAL-TOOTH LOCK WASHER, 5/16" WIDE X 9/64" THICK, 18-8 STAINLESS STEEL	3

[Return to Table of Contents](#)

DEMTECH Services, Inc. Placerville, California		
TITLE [600-100A/A] ASSY, CONTROL BOX COMPLETE, W/CONTROLLERS, PRO-X, X2		
SIZE D	DWG NO PX-14009	REV B
SCALE 1:2	SHEET 2 OF 2	

1. USE LOCTITE BRAND 243 OR EQUAL FOR ALL HARDWARE TIGHTENED TO THE 600-14 PEM NUTS AND 600-14.3 RELAY BRACKET.

NOTES (UNLESS OTHERWISE SPECIFIED):



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2		DWG NO 600-PREHEAT_2200_A	SH 1	REV C	1	
REVISION HISTORY						
ZONE	REV	DESCRIPTION		DATE	APPROVED	
ALL	A	INITIAL RELEASE TO PRODUCTION		03/30/2021	ODM	
ALL	B	ECO-24001, RELEASE DRAWING TO PRODUCTION, REPLACE A-6101772 WITH PRT-75055		01/03/2024	ODM	
ALL	C	ECO-26007, UPDATE PARTS / LIST / PART NUMBER WAS 600-PREHEAT/A NOW 600-PREHEAT/2200/A		03/02/2026	FRK	

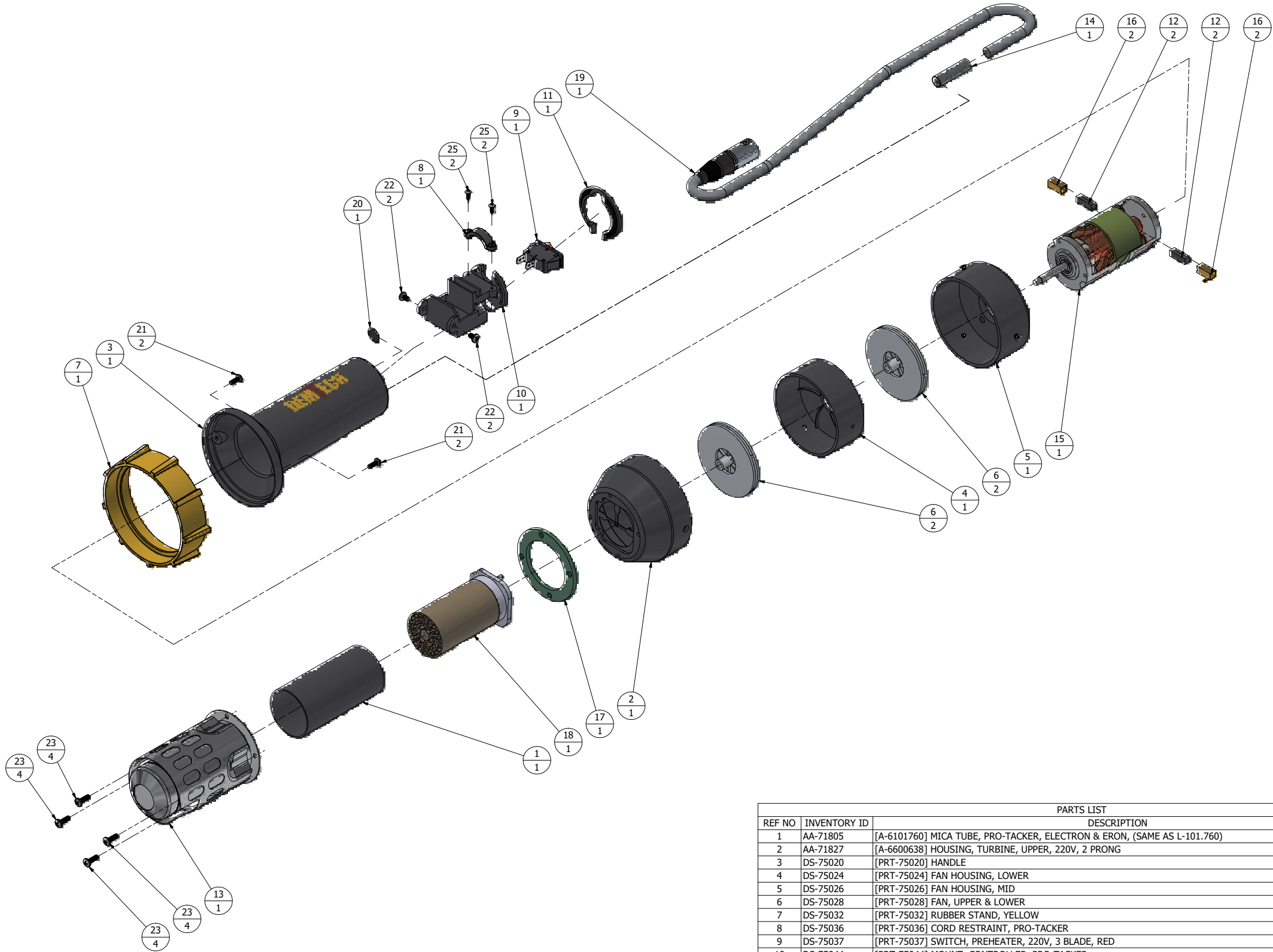
[Return to Table of Contents](#)

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		DRAWN ODM	03/30/2021	DEMTECH Services, Inc. Placerville, California	
DECIMALS XX ± .02 ANGLES ± 1° FRACTIONS ± 1/16		CHECKED QA		TITLE	
MATERIAL SEE NOTES		MFG		[600-PREHEAT/2200/A] ASSY, PREHEATER, PRO-X, 220V, 2200W	
FINISH NONE		APPROVED		SIZE D	DWG NO PX-14045
DO NOT SCALE DRAWING				SCALE 1:1	REV C
			2	SHEET 1 OF 2	

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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	AA-71805	[A-6101760] MICA TUBE, PRO-TACKER, ELECTRON & ERON, (SAME AS L-101.760)	1
2	AA-71827	[A-6600638] HOUSING, TURBINE, UPPER, 220V, 2 PRONG	1
3	DS-75020	[PRT-75020] HANDLE	1
4	DS-75024	[PRT-75024] FAN HOUSING, LOWER	1
5	DS-75026	[PRT-75026] FAN HOUSING, MID	1
6	DS-75028	[PRT-75028] FAN, UPPER & LOWER	2
7	DS-75032	[PRT-75032] RUBBER STAND, YELLOW	1
8	DS-75036	[PRT-75036] CORD RESTRAINT, PRO-TACKER	1
9	DS-75037	[PRT-75037] SWITCH, PREHEATER, 220V, 3 BLADE, RED	1
10	DS-75044	[PRT-75044] MOUNT, CONTROLLER, PRO-TACKER	1
11	DS-75050	[PRT-75050] AIR FILTER	1
12	DS-75052	[PRT-75052] CARBON BRUSH, 120V & 220V	2
13	DS-75055	[PRT-75055] SLEEVE, LARGE HEATER, W/GUARD, PREHEATER, 2200W & 3400W	1
14	DS-75080	[PRT-75080] CORD GUARD, REAR, PRO-TACKER	1
15	DS-75087	[PRT-75087] MOTOR, PREHEATER, PRO-X, LARGE PROTACKER, 220V 2200W	1
16	LE-72271	[L-100.279] BRUSH HOLDERS, DEMENTACKER / PRO-TACKER, TRIAC "S", ELECTRON (NEW STYLE)	2
17	LE-72283	[L-101.270] FIBER RING, ELECTRON (ASBESTOS FREE)	1
18	LE-72285	[L-101.776] HEAT ELEMENT, 230V, 2200W, 2-PIN W/ T/C HOLE, (FOR PRO-X (W/3400W PREHEATER), X2 & X3)	1
19	PX-14038	[600-PH CORD/A] CORD, PREHEATER, W/ PLUG (2' LENGTH)	1
20	HARDWARE	PLUG, 1/2" UNVENTED NYLON DOME, LOCKING, BLACK	1
21	HARDWARE	SCREW, M3.5 X 0.6 X 10mm LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	2
22	HARDWARE	SCREW, M4 X 0.7 X 5mm LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	2
23	HARDWARE	SCREW, M4 X 0.7 X 12mm LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	4
24	HARDWARE	SCREW, FLAT HEAD, M3.5 X 0.6mm X 8mm, 18-8 STAINLESS	3
25	HARDWARE	SCREW, SHEET METAL, M2.9 X 9.5mm, 18-8 STAINLESS	2

[Return to Table of Contents](#)

DEMTECH Services, Inc.
Placerville, California

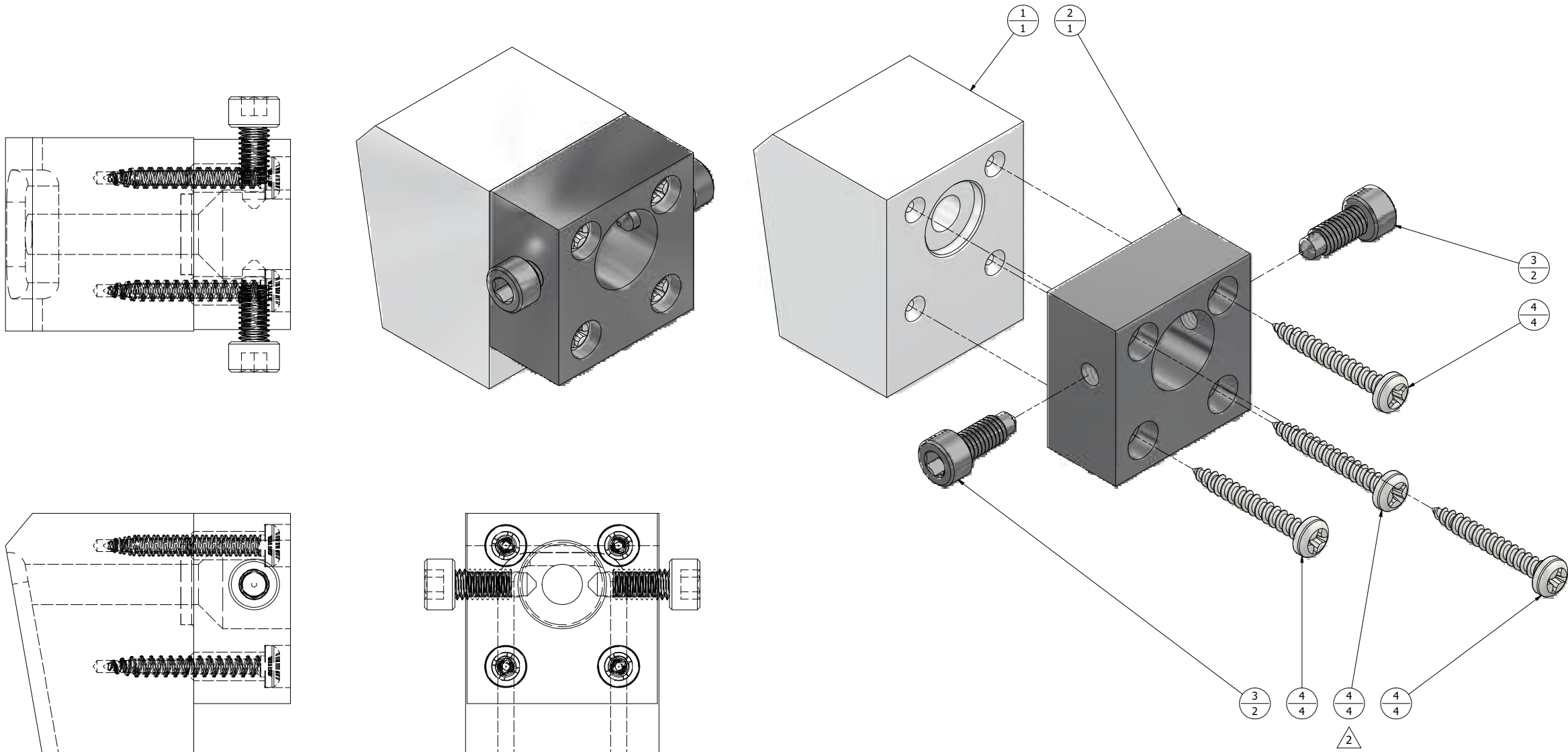
TITLE
[600-PREHEAT/2200/A] ASSY, PREHEATER,
PRO-X, 220V, 2200W

SIZE D	DWG NO PX-14045	REV C
SCALE 1/2	SHEET 2 OF 2	

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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE	06/17/2013	ISD
ALL	B	ECO-20008, ADD SCREW TORQUE SPEC	09/09/2020	ISD

All 600 Teflon Shoe Assemblies
take the same mount and
hardware



(Drawing References all 600 Teflon Shoe Assemblies)

[Return to Table of Contents](#)

2. DURING INSTALLATION TORQUE ALL PAN HEAD SELF-TAPPING SCREWS TO 10±1 IN-LB.

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):

PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	TS-72859	[TS-600-60] SHOE, OVERLAP, FOR 1.0-2.0MM (40-80 MIL) SHEET THICKNESS	1
2	TS-72869	[TS-600-M] MOUNT PLATE, SHOE	1
3	TS-72875	[TS-605-018] SCREW, TEFLON SHOE MOUNT	2
4	HARDWARE	SCREW, #8-11 X 1-1/4" LONG, PAN HEAD PHILLIPS, 410 STAINLESS STEEL	4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN ISD	06/17/2013	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS XX ± .02	SURFACE FINISH 63/	QA		[TS-600-60/A] ASSY, SHOE, OVERLAP FOR 1.0-2.0mm (40-80mil) SHEET THICKNESS	
XXX ± .005	ANGLES ± 1°	MFG			
FRACTIONS ± 1/16		APPROVED		SIZE D	DWG NO TS-14108
MATERIAL SEE PARTS LIST				REV B	
FINISH N/A				SCALE 2:1	SHEET 1 OF 1
DO NOT SCALE DRAWING					