



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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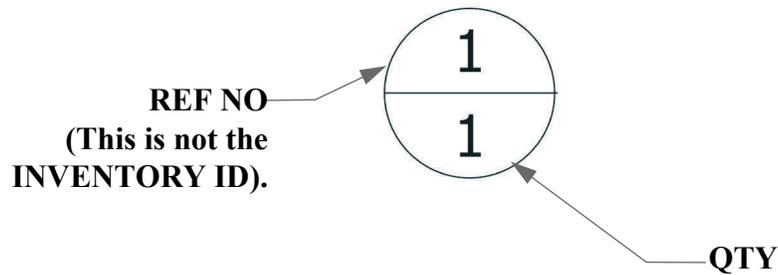
Web Site: www.demtech.com

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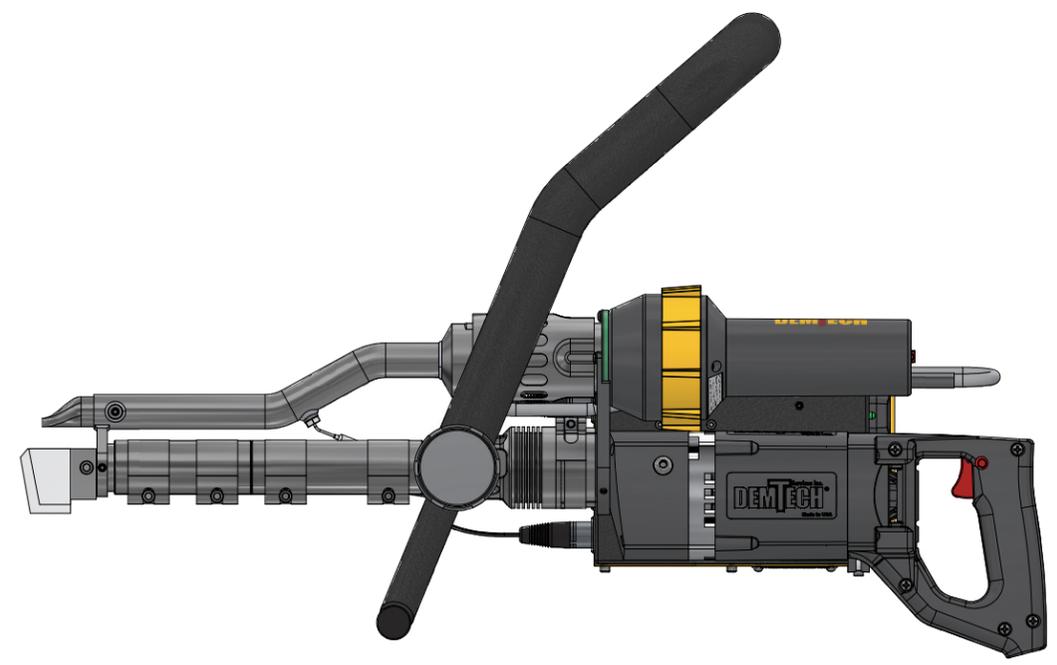
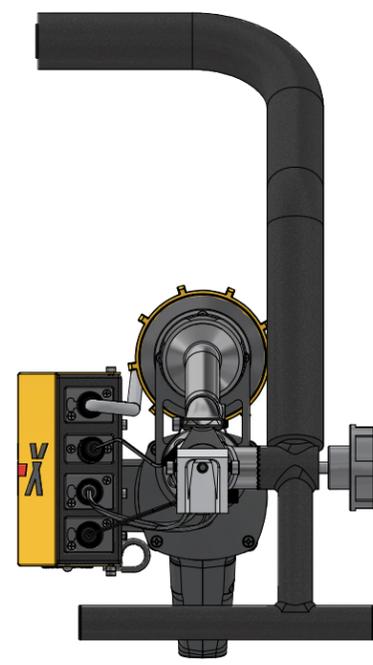
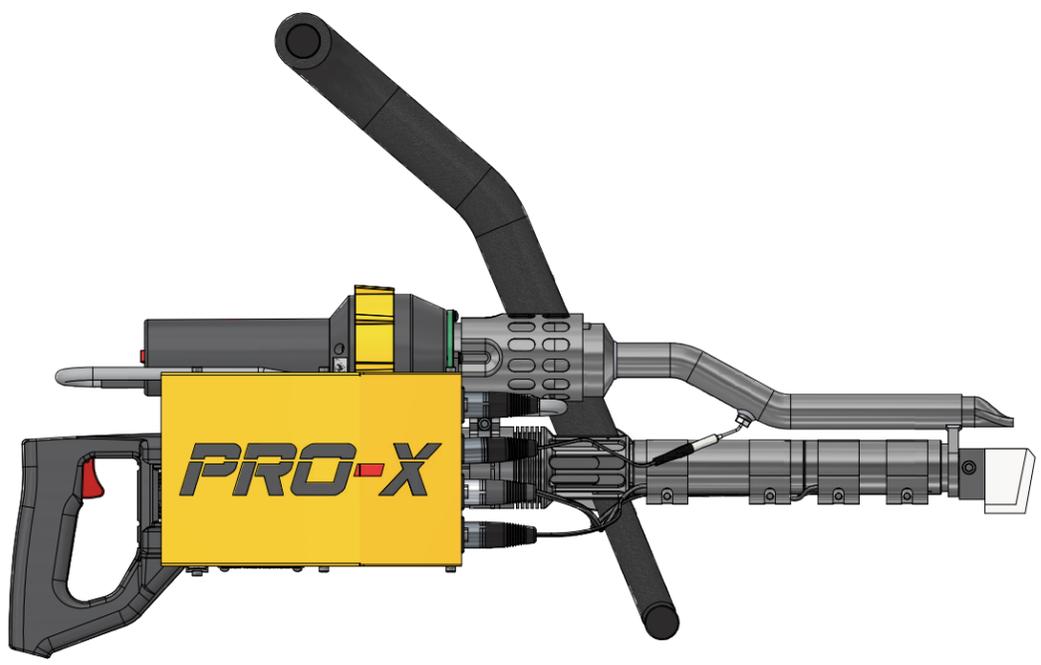
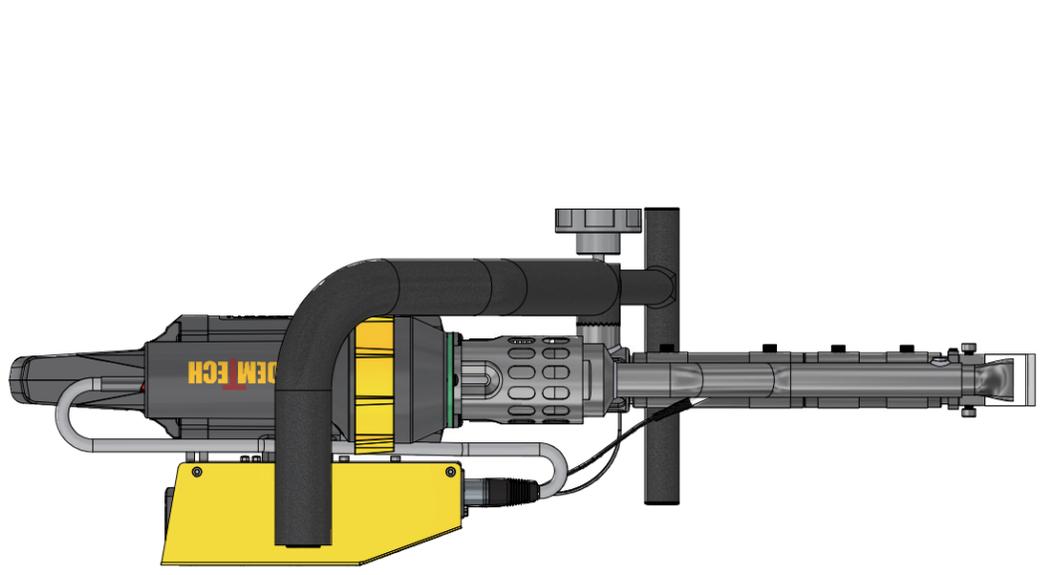
1 Ordering Instructions

Use the exploded assembly diagrams and related parts lists on the following pages to identify replacement parts for the 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.



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2		DWG NO 600-0100/PRT/A	SH 1	REV B	1
REVISION HISTORY					
ZONE	REV	DESCRIPTION	DATE	APPROVED	
ALL	A	ECO-22017, INITIAL RELEASE TO PRODUCTION	04/13/2022	ODM	
ALL	B	REPLACE 4X 5X8 BHCS W/ #10 X 1/2" HI/LOW	09/17/2025	FRK	



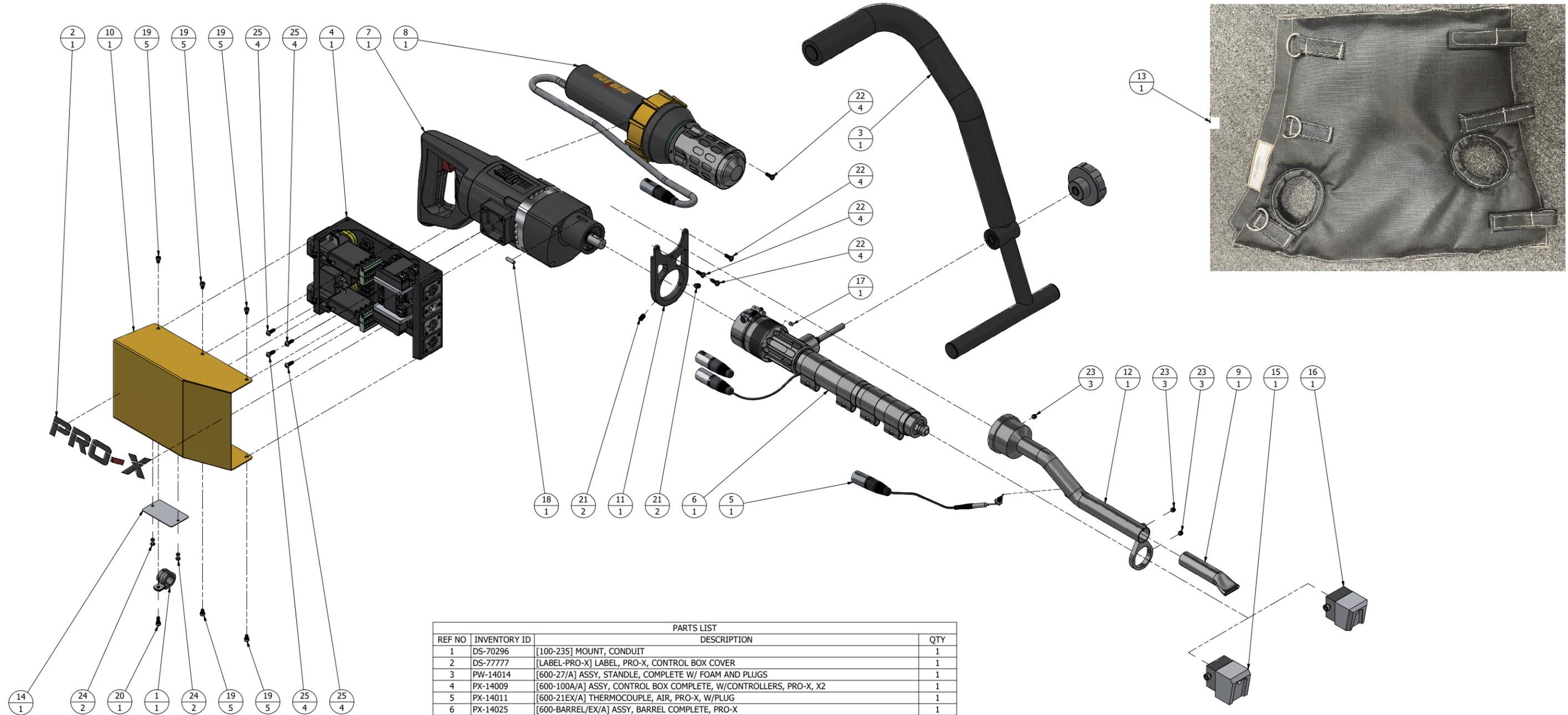
1. THE BALLOON SYMBOL, Θ , CONTAINS THE REFERENCE NUMBER (REF NO) AND QUANTITY (QTY) OF A SPECIFIED COMPONENT IN THIS ASSY. THE UPPER DIGIT IS THE REF NO AND THE LOWER DIGIT IS THE QTY REQUIRED FOR THIS ASSY.

NOTES (UNLESS OTHERWISE SPECIFIED):

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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 [600-0100/PRT/A] ASSY, PRO-X HIGH OUTPUT EXTRUSION WELDER, 220V, °C/°F W/600-PREHEAT/2200/A	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		SIZE D	DWG NO PX-13009
ANGLES ± 1°	FRACTIONS ± 1/16	MFG		SCALE 1:3	REV B
MATERIAL	SEE PARTS LIST	APPROVED		SHEET 1 OF 2	
FINISH	N/A				
DO NOT SCALE DRAWING					

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NON-SERVICEABLE ITEM
 IF DAMAGED
 CONTACT FACTORY

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

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 Placerville, California

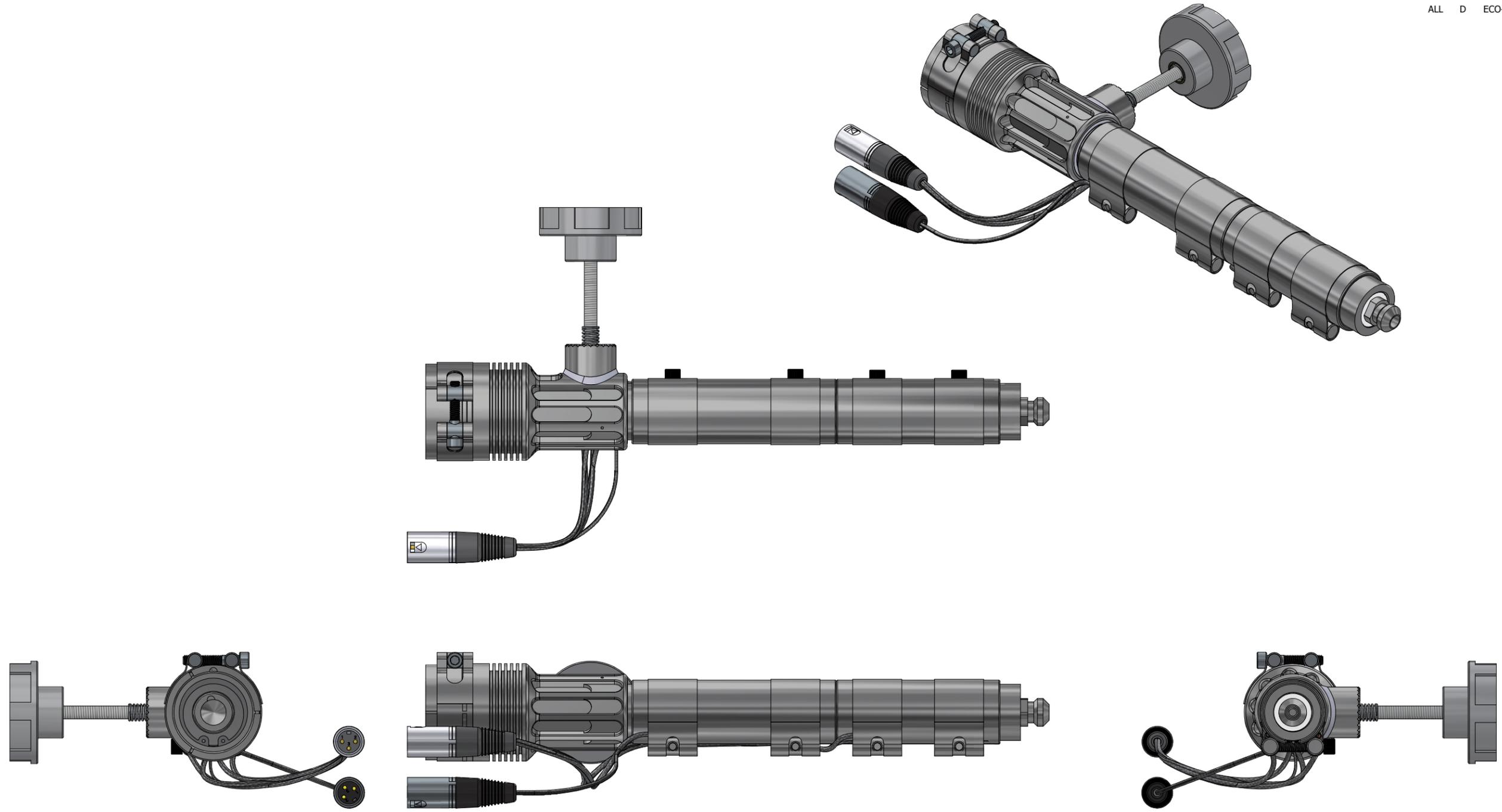
TITLE [600-0100/PRT/A] ASSY, PRO-X HIGH OUTPUT EXTRUSION WELDER, 220V, °C/°F, W/600-PREHEAT/2200/A

SIZE D DWG NO PX-13009 REV B

SCALE 1:3 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		



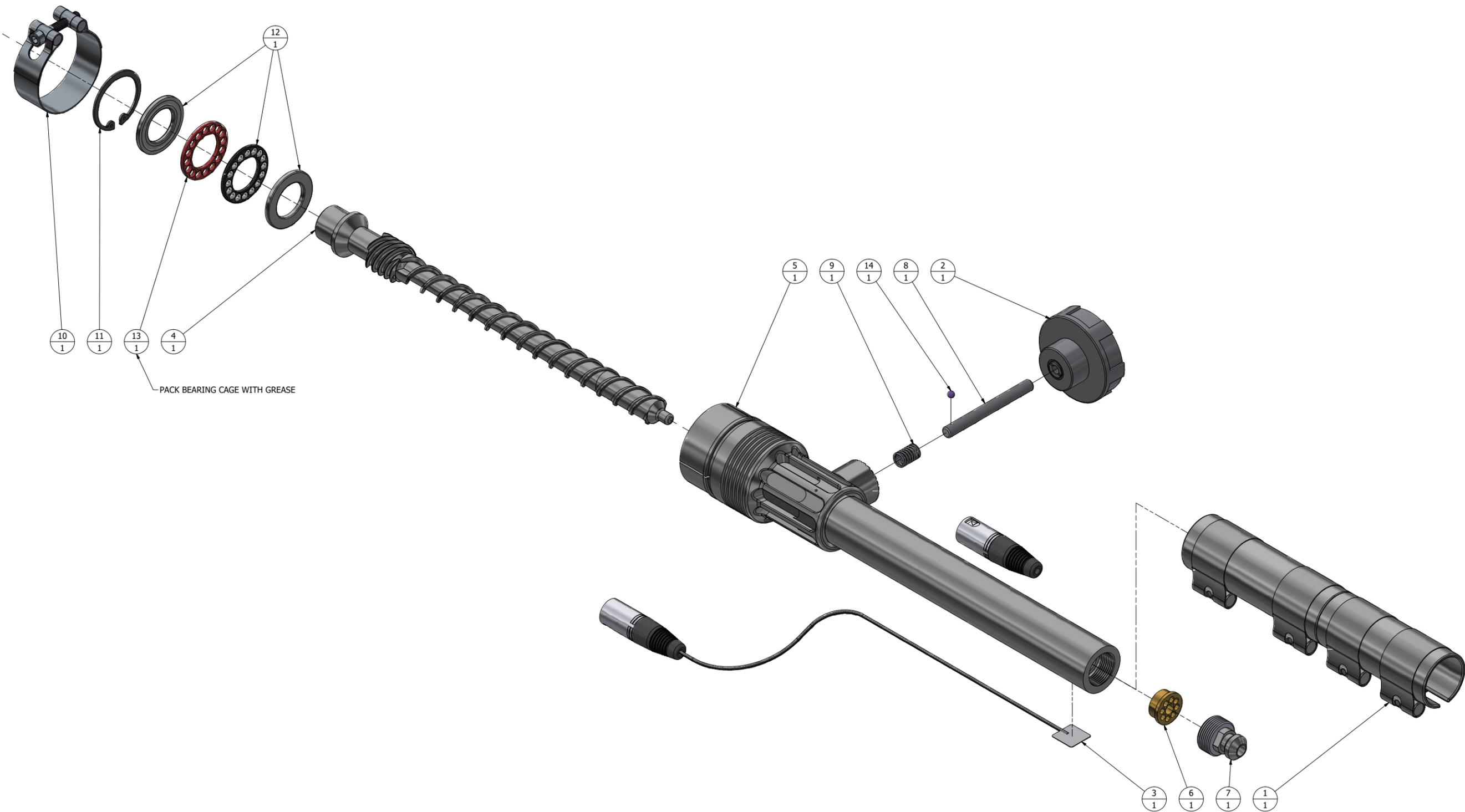
[Return to Table of Contents](#)

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	05/21/2012	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		[600-BARREL/EX/A] ASSY, BARREL COMPLETE, PRO-X	
ANGLES ± 1°	FRACTIONS ± 1/16	MFG		SIZE	DWG NO
MATERIAL		APPROVED		D	PX-14025
SEE PARTS LIST				SCALE	1:4
FINISH				SHEET 1 OF 2	
N/A					
DO NOT SCALE DRAWING					

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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

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DEMTECH Services, Inc.
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TITLE
[600-BARREL/EX/A] ASSY, BARREL COMPLETE, PRO-X

SIZE
 D

SCALE
 1:4

DWG NO
PX-14025

REV
 D

SHEET 2 OF 2

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2		DWG NO 600-DRILL/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, UPDATE PARTS LIST STRUCTURE	02/23/2026	FRK		



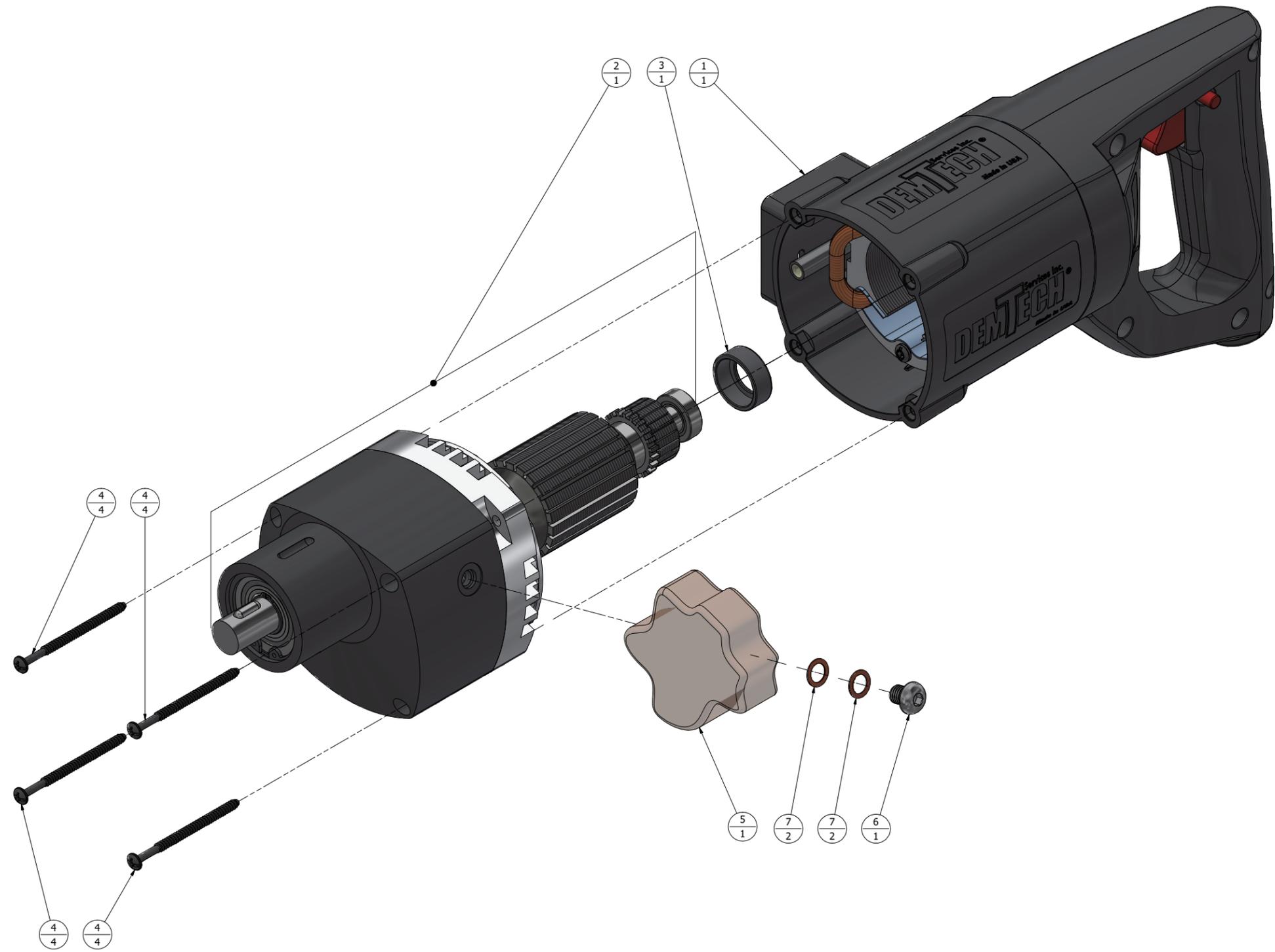
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STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		[600-DRILL/A] ASSY, DRILL MOTOR COMPLETE, PRO-X	
	ANGLES ± 1°	MFG		SIZE	DWG NO
	FRACTIONS ± 1/16	APPROVED		D	PX-14035
MATERIAL	SEE PARTS LIST			SCALE	REV
FINISH	N/A			3:4	B
DO NOT SCALE DRAWING				SHEET 1 OF 2	

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TITLE
 [600-DRILL/A] ASSY, DRILL MOTOR COMPLETE, PRO-X

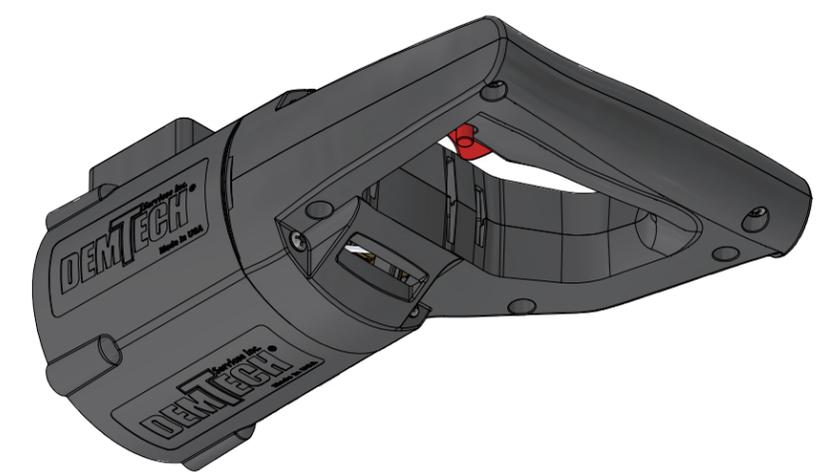
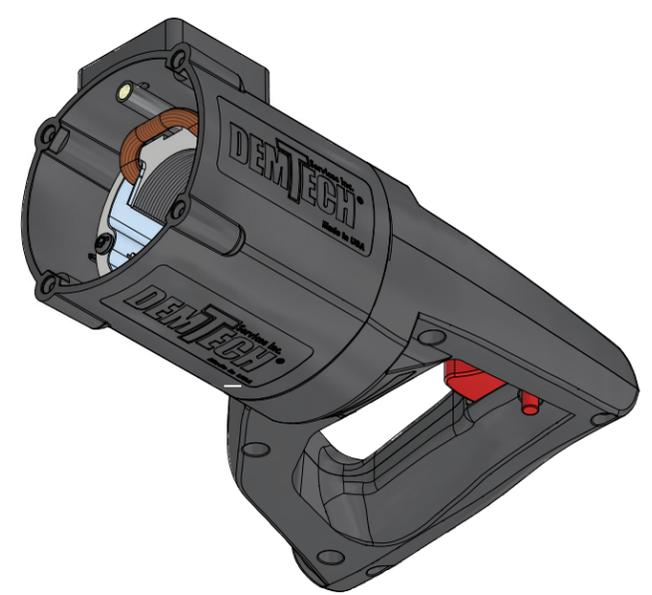
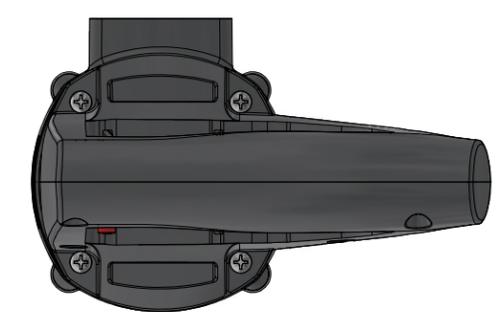
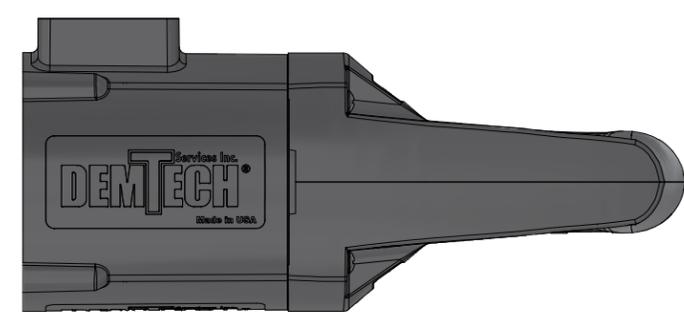
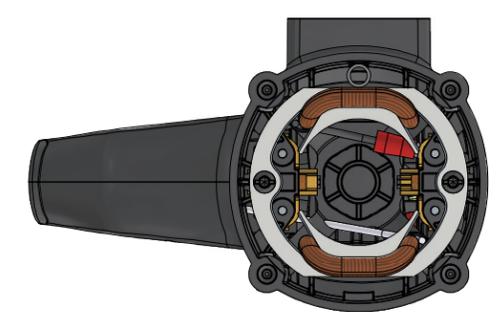
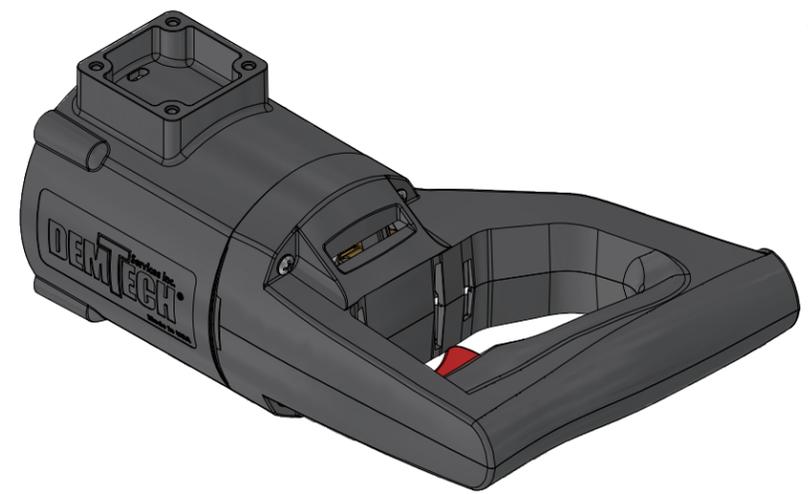
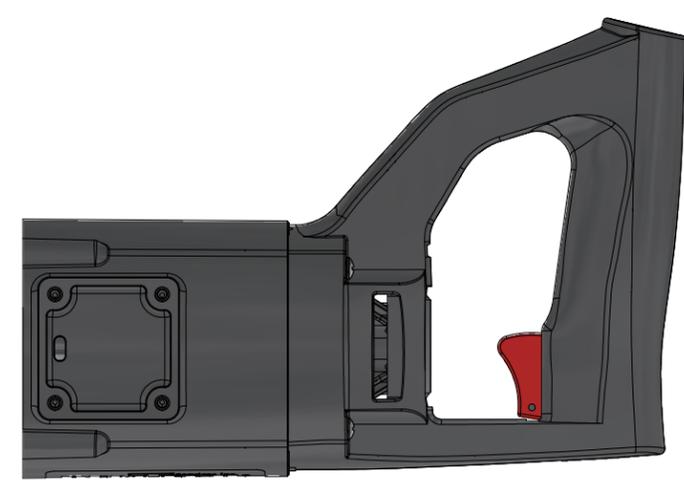
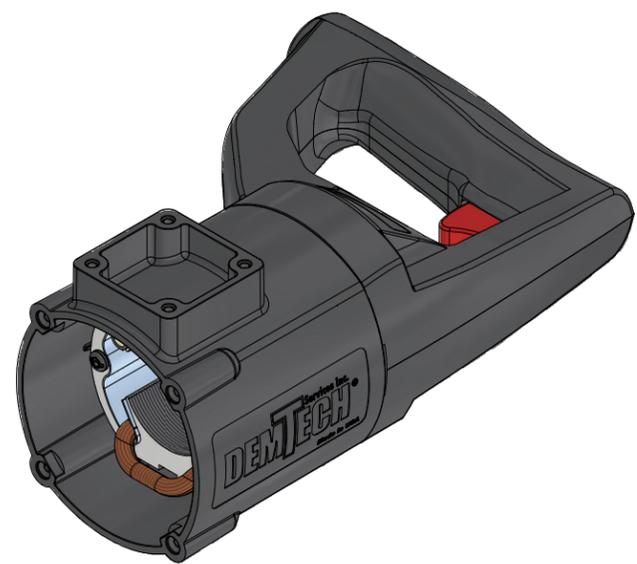
SIZE: D
 DWG NO: PX-14035
 REV: B

SCALE: 1:1
 SHEET 2 OF 2

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

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2	DWG NO 600-D08/A	SH 1	REV C	1
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



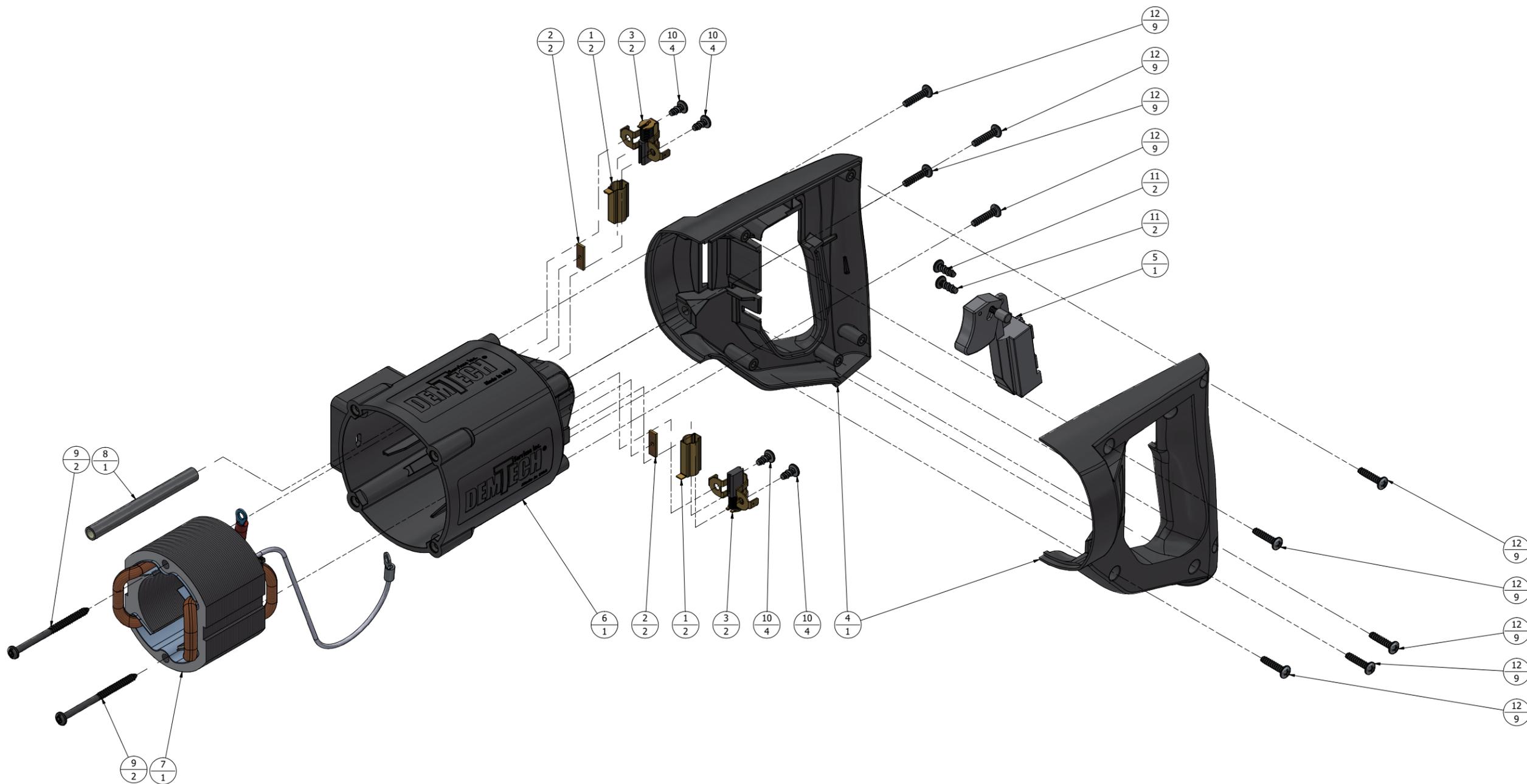
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STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		[600-D08/A] ASSY, HOUSING, MOTOR, PRO-X, W/FIELD COIL/D-HANDLE KIT ETC.	
	ANGLES ± 1°	MFG		SIZE	DWG NO
	FRACTIONS ± 1/16	APPROVED		D	PX-14028
MATERIAL	SEE PARTS LIST			SCALE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

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REF NO	INVENTORY ID	PARTS LIST 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

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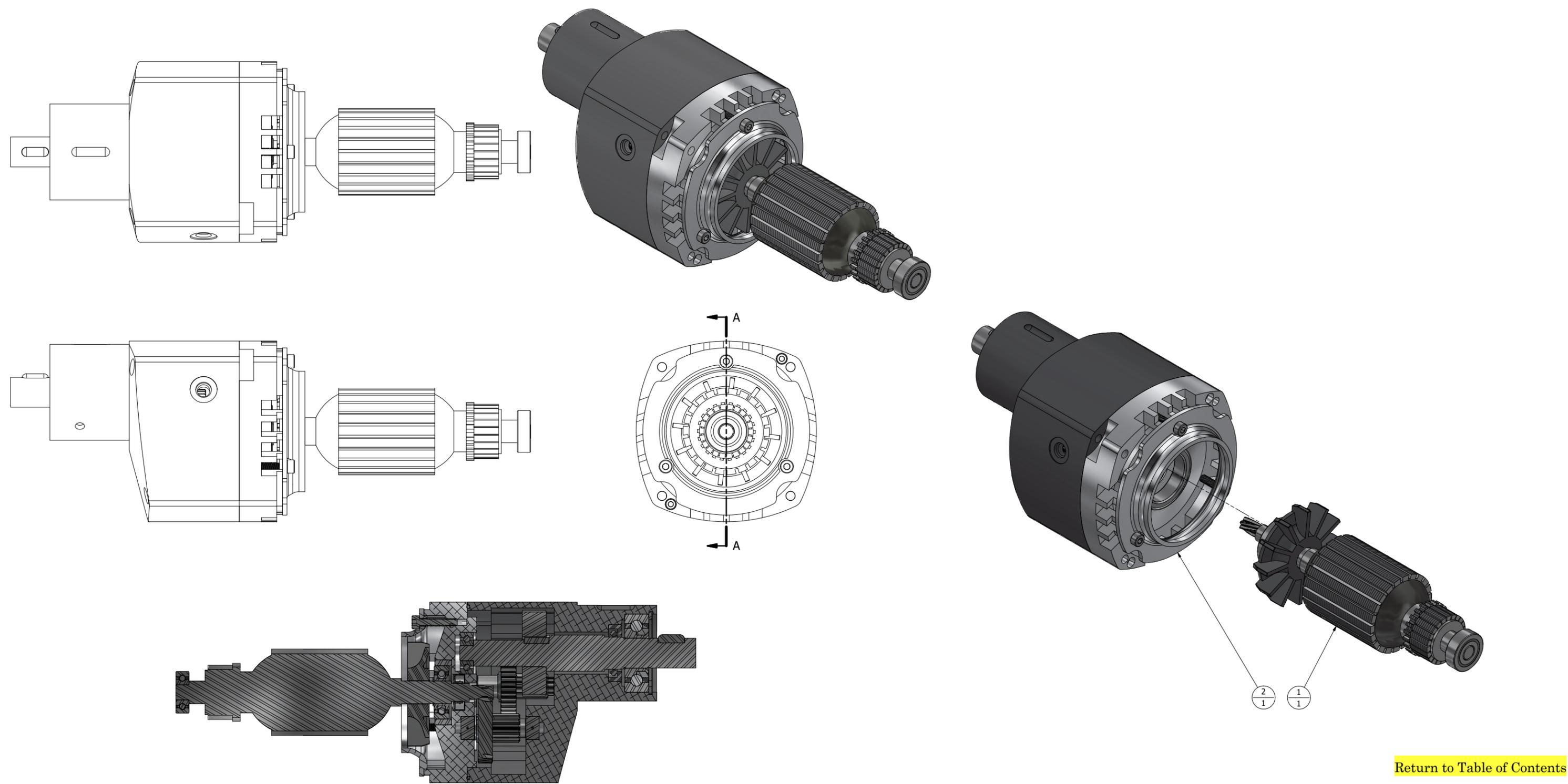
DEMTECH Services, Inc.
 Placerville, California

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

SIZE D DWG NO PX-14028 REV C
 SCALE 3:4 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



SECTION A-A
 SCALE 1 : 1

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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.

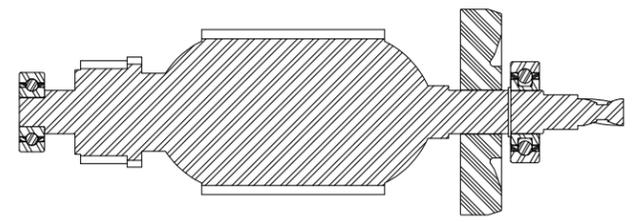
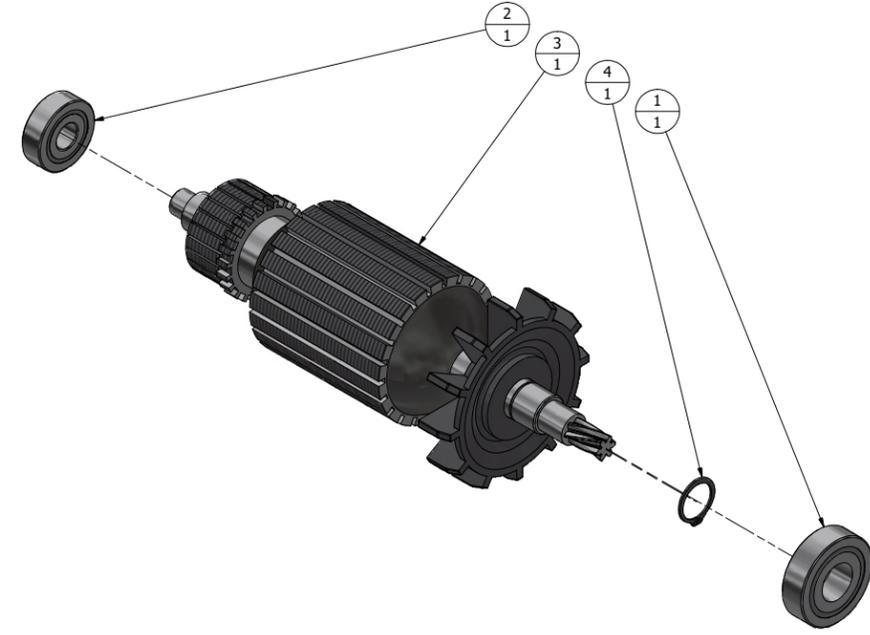
NOTES (UNLESS OTHERWISE SPECIFIED):

PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	PX-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

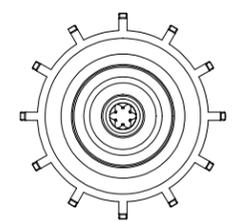
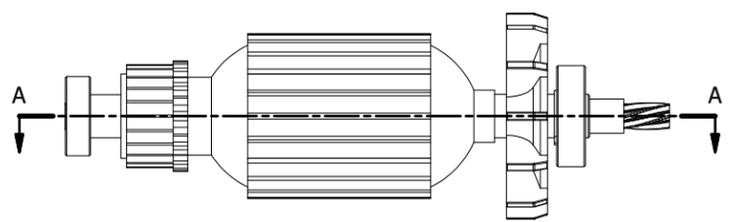
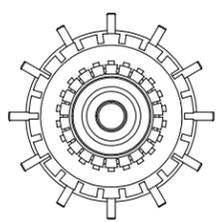
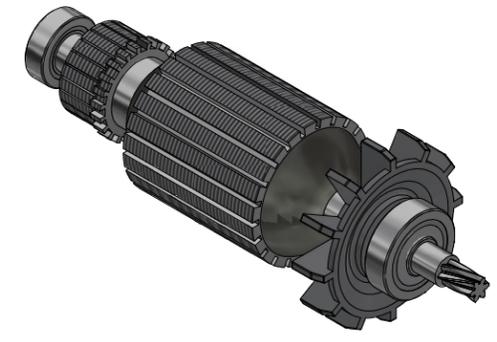
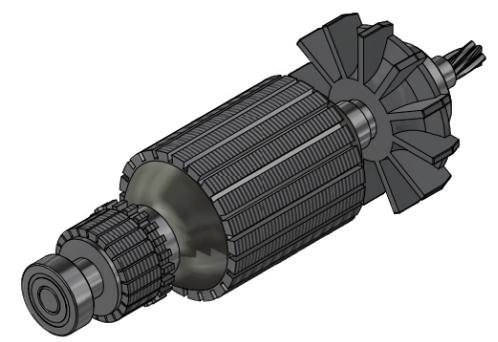
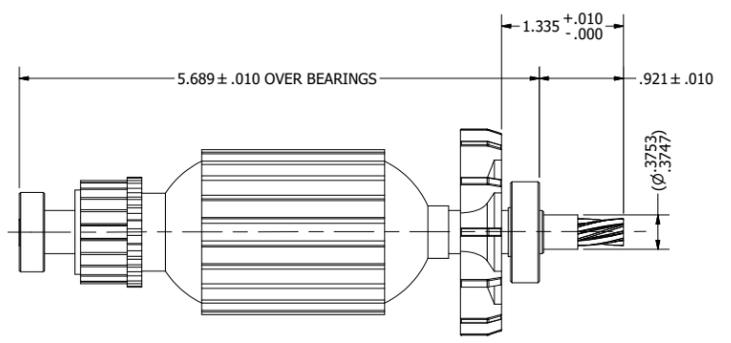
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN ISD	05/21/2012	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		[600-D100A/A] ASSY, GEAR BOX COMPLETE, W/ ARMATURE, CODE: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

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2		DWG NO 600-D02EX/A	SH 1	REV H	1	
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



[Return to Table of Contents](#)

2. **NOT SOLD SEPARATLY:** 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.

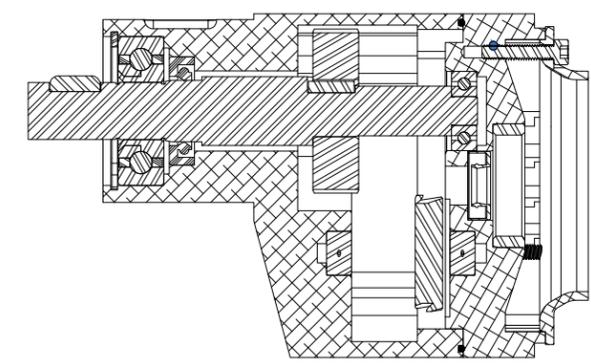
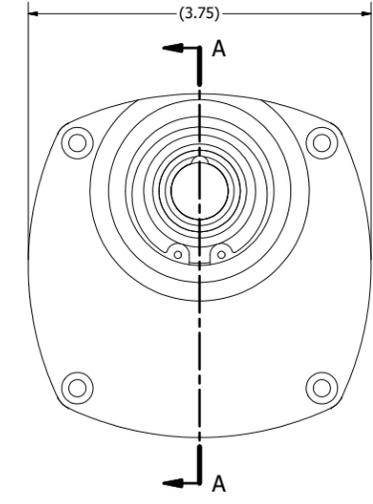
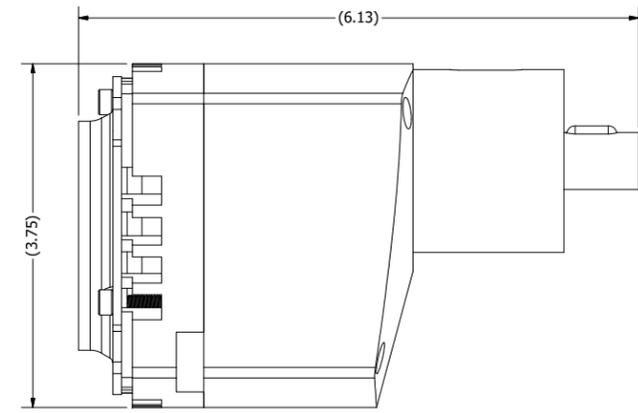
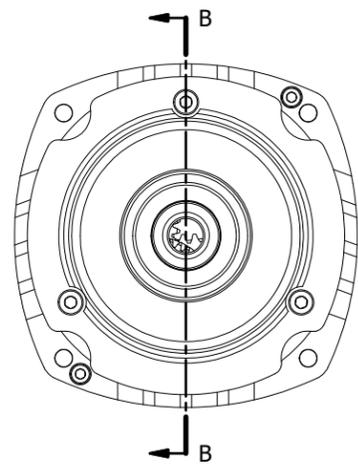
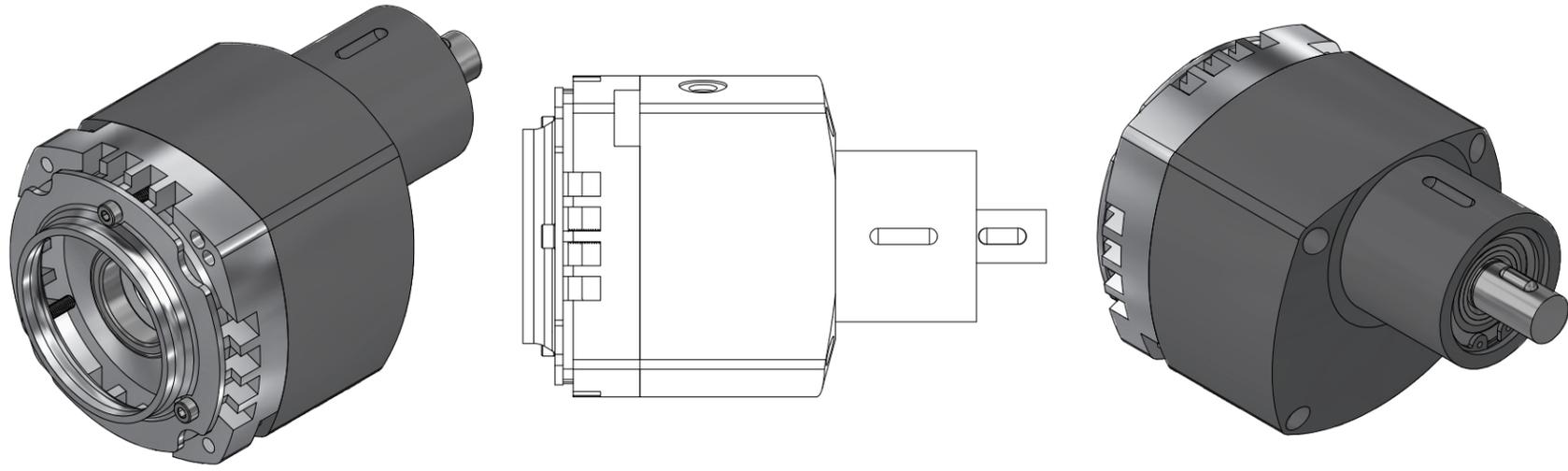
NOTES (UNLESS OTHERWISE SPECIFIED):

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] AMRRMATURE COMPLETE, W/FAN, NO BEARING, 220V (YELLOW DOT)	1
4	HARDWARE	SNAP RING, 15/32" OD SHAFT, EXTERNAL RETAINING, BLACK PHOSPHATE SPRING STEEL	1

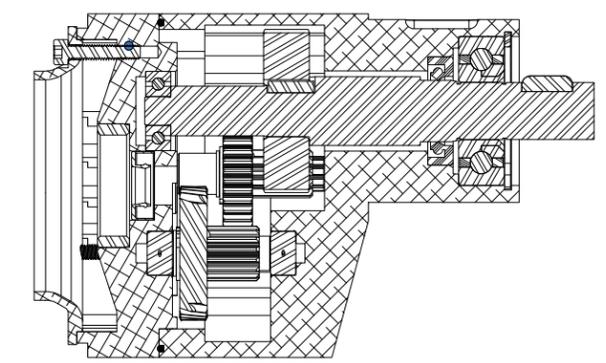
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN ISD	05/15/2017	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/	QA		[600-D02EX/A] ASSY, MOTOR ARMATURE / BEARINGS / FAN, CODE: YELLOW	
XX ± .02	ANGLES ± 1°	MFG		SIZE	DWG NO
XXX ± .005	FRACTIONS ± 1/16	APPROVED		D	PX-71403
MATERIAL				SCALE	REV
SEE NOTES				1:1	H
FINISH				SHEET 1 OF 1	
N/A					
DO NOT SCALE DRAWING					

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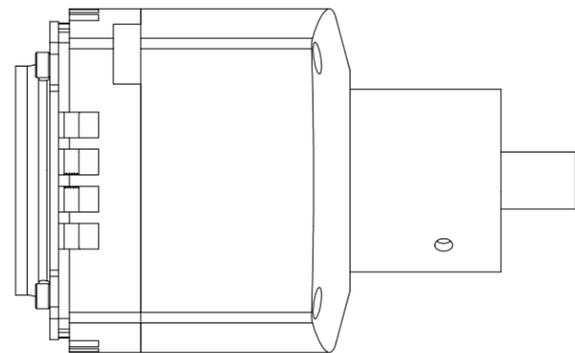
2		DWG NO 600-D100/A	SH 1	REV D	1	
REVISION HISTORY						
ZONE	REV	DESCRIPTION	DATE	APPROVED		
ALL	A	INITIAL RELEASE	05/21/2012	ISD		
ALL	B	REFLECT CHANGES TO 600-D01EX & 600-D24EX, ADD 2X M3 SHCS	07/01/2019	ISD		
ALL	C	ECO-25010, REPLACE 600-D26 DISC W/ 603-D27 SHROUD	06/16/2025	ISD		
ALL	D	ECO-26001, RELFECT CHANGES TO P/N 603-D27	01/06/2026	FRK		



SECTION A-A
SCALE 1 : 1



SECTION B-B
SCALE 1 : 1



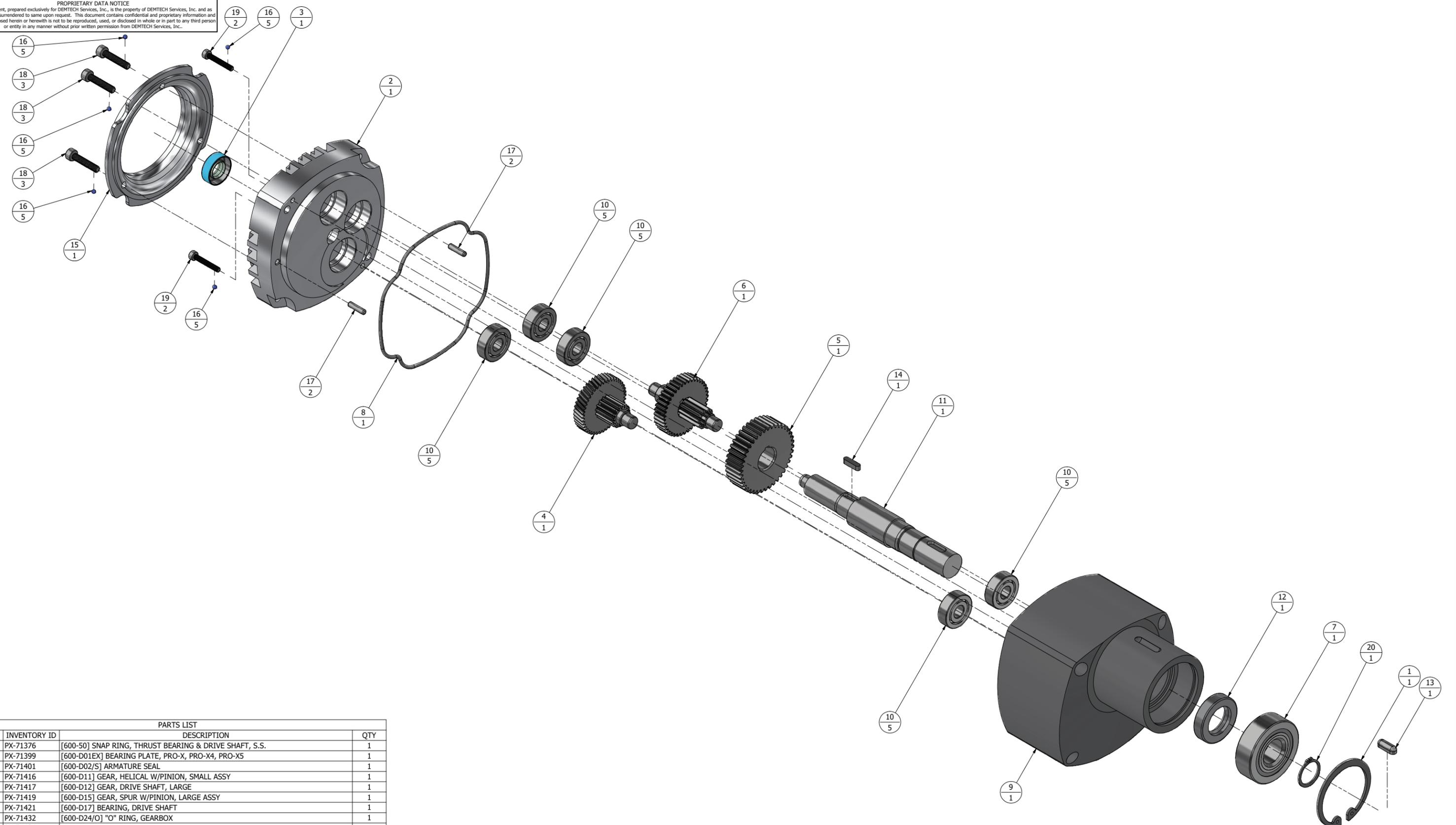
[Return to Table of Contents](#)

1. THE BALLOON SYMBOL, \ominus , 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	05/21/2012	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/	QA		[600-D100/A] ASSY, GEAR BOX COMPLETE, W/O ARMATURE	
XX ± .02	ANGLES ± 1°	MFG		SIZE	DWG NO
XXX ± .005	FRACTIONS ± 1/16	APPROVED		D	PX-14030
MATERIAL				SCALE	REV
SEE PARTS LIST				1:1	D
FINISH				SHEET 1 OF 2	
N/A					
DO NOT SCALE DRAWING					

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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

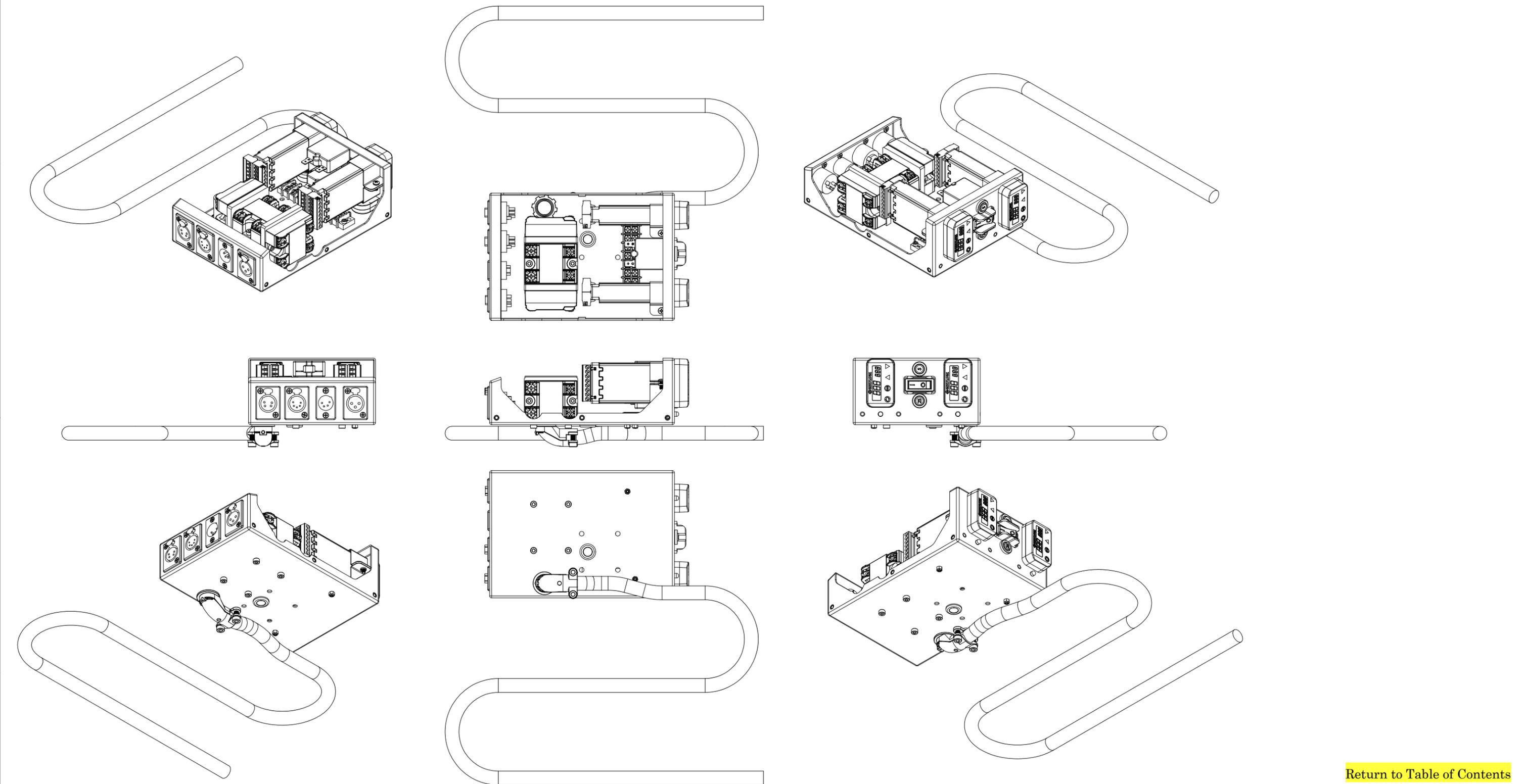
SIZE: D DWG NO: PX-14030 REV: D

SCALE: 1:1 SHEET 2 OF 2

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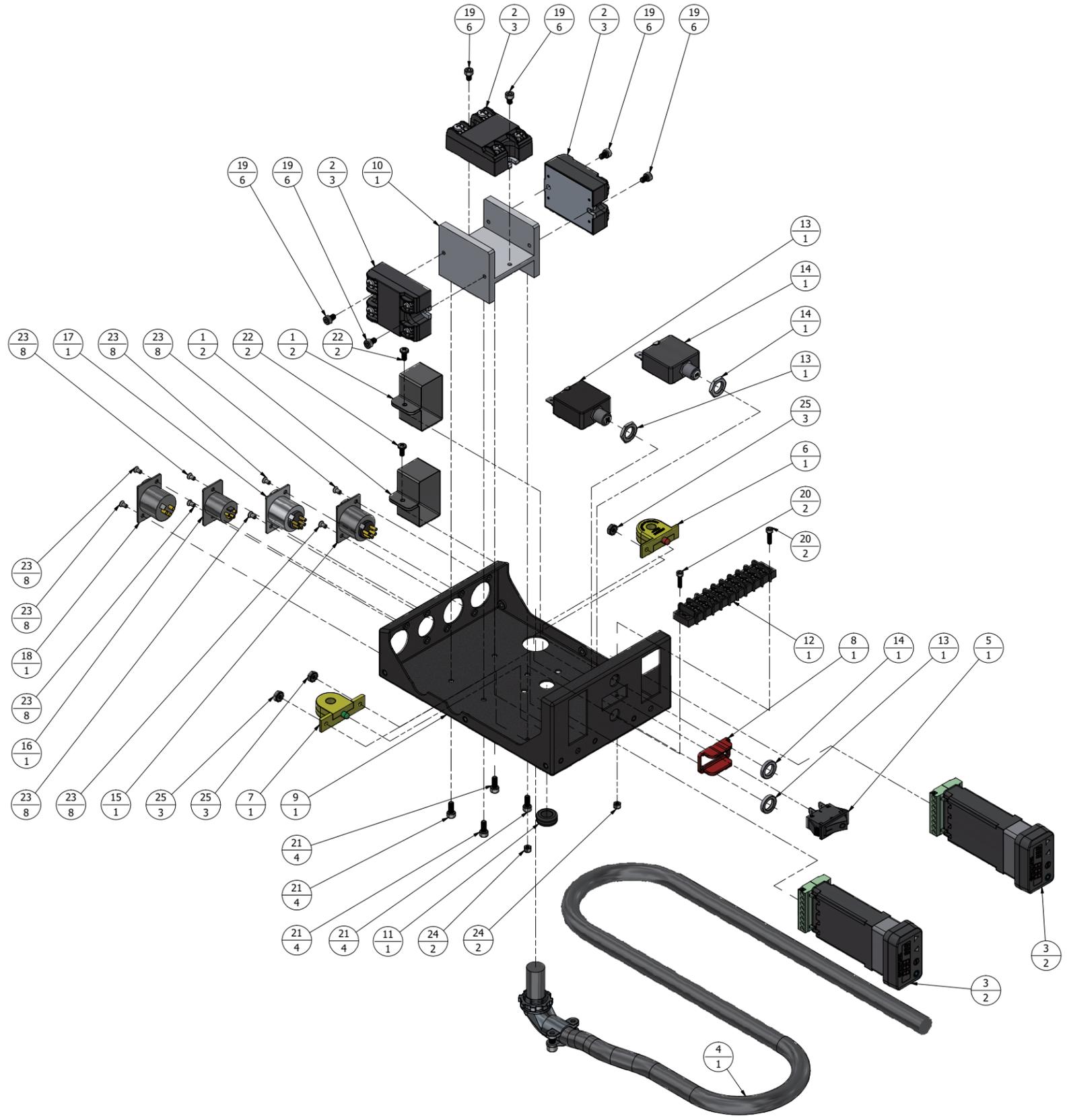
2		DWG NO 600-100A/A	SH 1	REV B	1
REVISION HISTORY					
ZONE	REV	DESCRIPTION	DATE	APPROVED	
ALL	A	INITIAL RELEASE TO PRODUCTION	06/09/2014	ISD	
ALL	B	ECO-26004, HOLE SIZES, LOCATIONS ADJUSTED	02/18/2026	FRK	



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):

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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	SURFACE FINISH 63/	QA		[600-100A/A] ASSY, CONTROL BOX COMPLETE, W/CONTROLLERS, PRO-X, X2	
XX ± .02	ANGLES ± 1°	MFG		SIZE	DWG NO
XXX ± .005	FRACTIONS ± 1/16	APPROVED		D	PX-14009
MATERIAL				SCALE	REV
SEE PARTS LIST				1:2	B
FINISH				SHEET 1 OF 2	
N/A					
DO NOT SCALE DRAWING					



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

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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

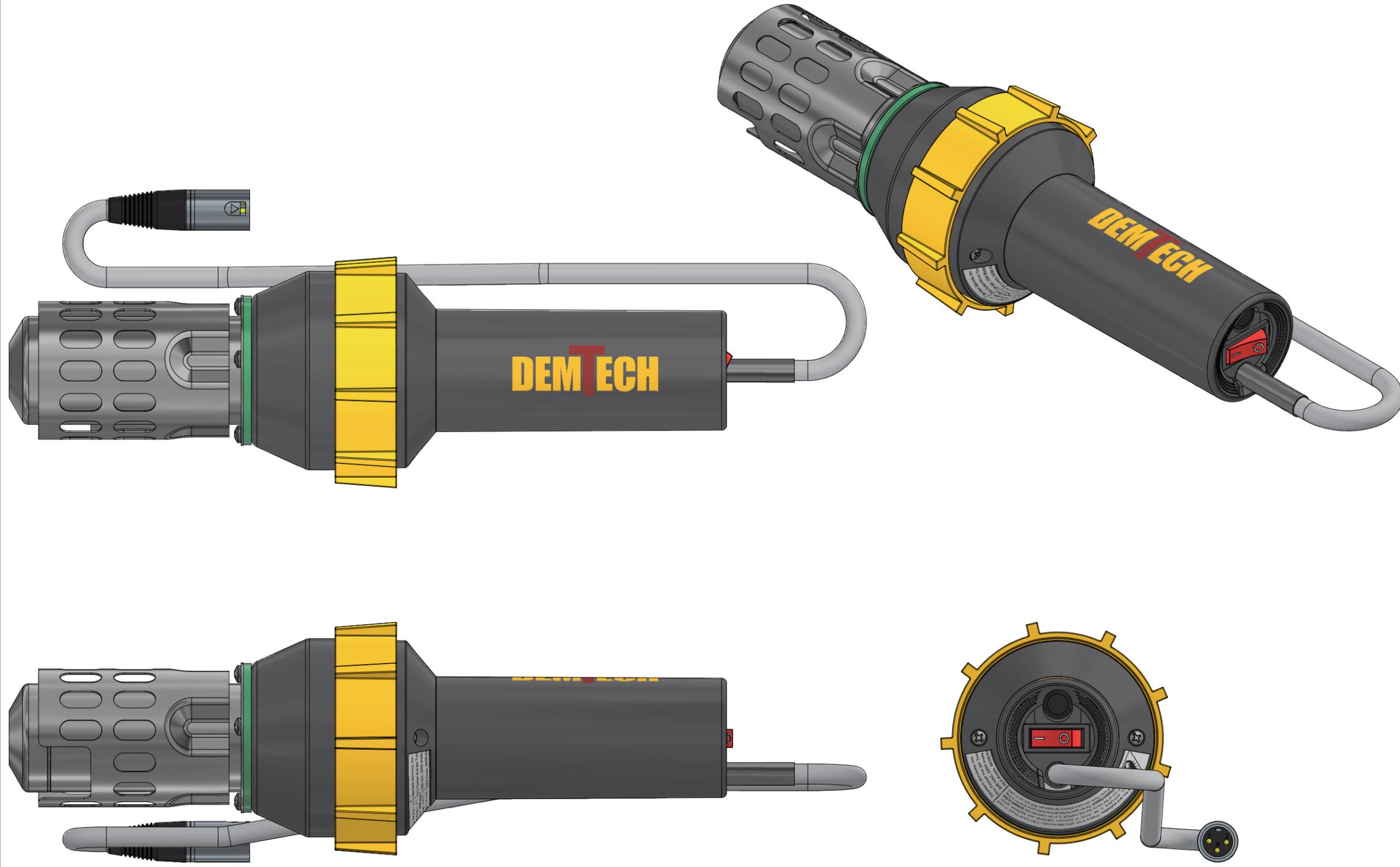
SCALE 1:2 SHEET 2 OF 2

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

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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		

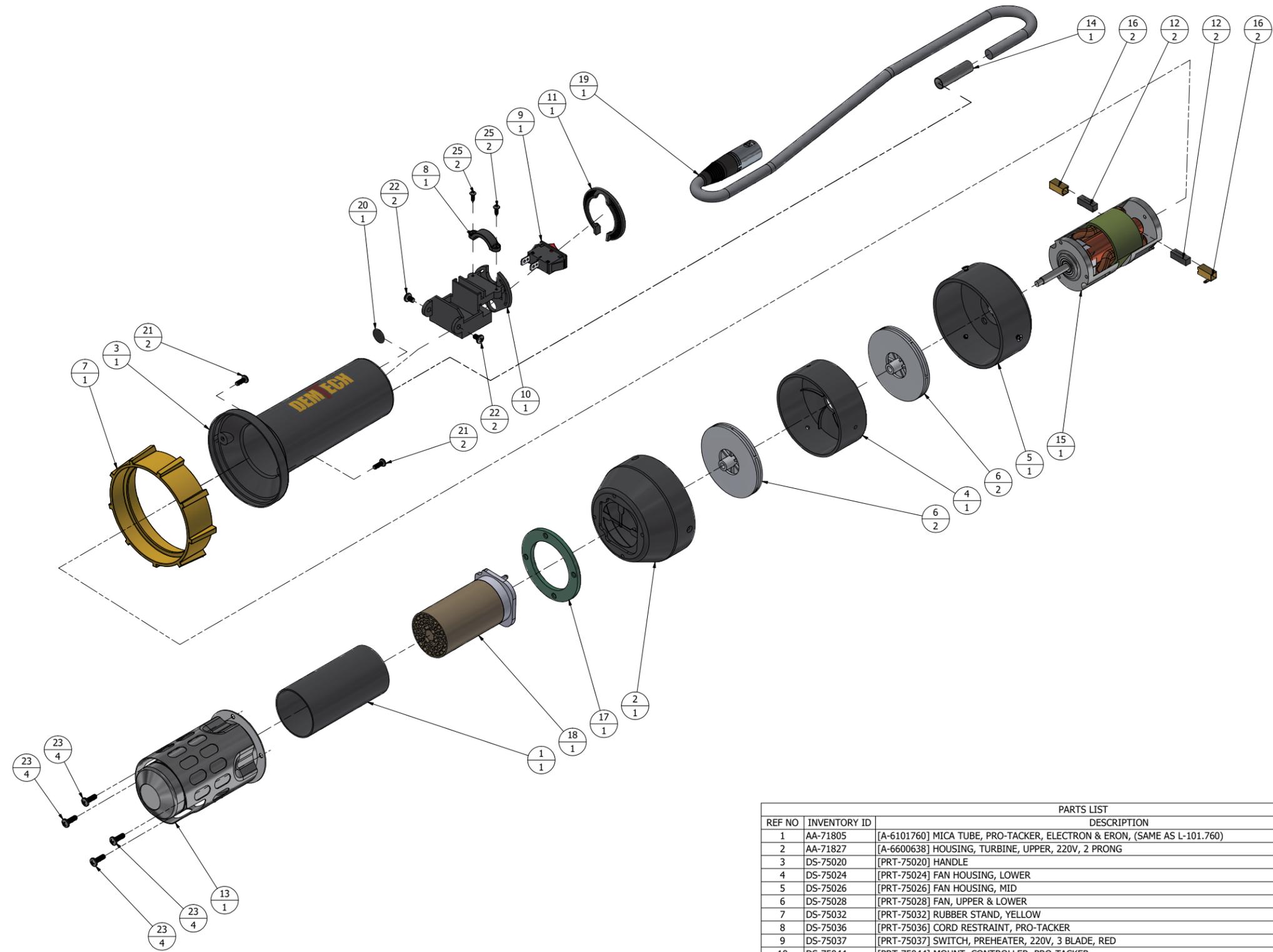


[Return to Table of Contents](#)

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		DRAWN ODM	03/30/2021	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/	QA		[600-PREHEAT/2200/A] ASSY, PREHEATER, PRO-X, 220V, 2200W	
XX ± .02	ANGLES ± 1°	MFG		SIZE	DWG NO
XXX ± .005	FRACTIONS ± 1/16	APPROVED		D	PX-14045
MATERIAL				SCALE	REV
SEE NOTES				1:1	C
FINISH				SHEET 1 OF 2	
NONE					
DO NOT SCALE DRAWING					

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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

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DEMTECH Services, Inc.
 Placerville, California

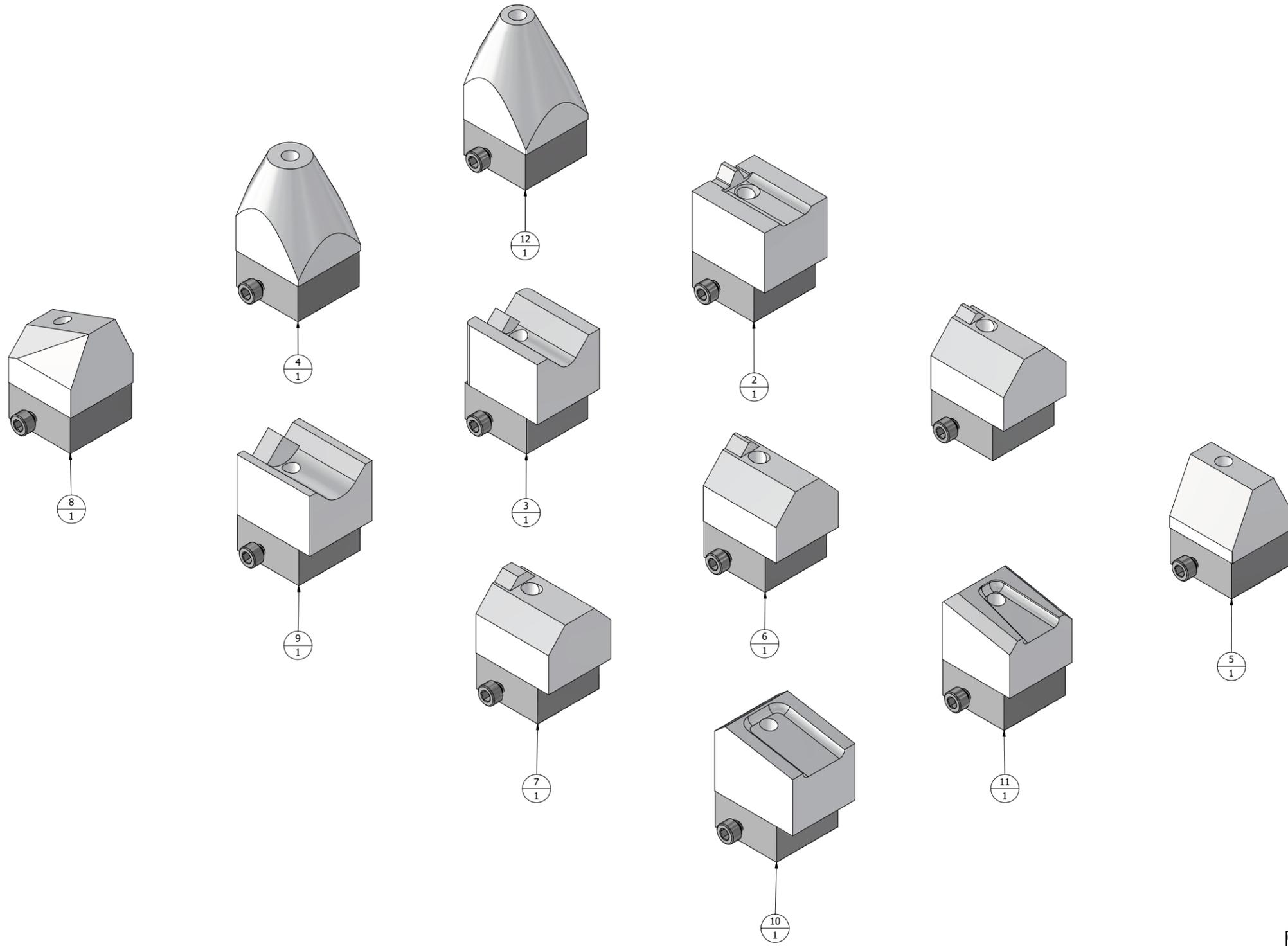
TITLE
[600-PREHEAT/2200/A] ASSY, PREHEATER, PRO-X, 220V, 2200W

SIZE D DWG NO PX-14045 REV C

SCALE 1/2 SHEET 2 OF 2

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2	DWG NO TS-600-XXXX_A	SH 1	REV A	1
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	DOC-0027, INITIAL RELEASE	02/27/2026	FRK



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PARTS LIST			
REF NO	INVENTORY ID	DESCRIPTION	QTY
1	TS-14093	[TS-600-0174/A] ASSY, SHOE, FILLET WELD, FOR 5-8MM (3/16"-5/16") SHEET THICKNESS, W/MOUNT AND SET SCREWS	1
2	TS-14094	[TS-600-0184/A] ASSY, SHOE, V-SEAM, FOR 10MM (3/8") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
3	TS-14095	[TS-600-0196/A] ASSY, SHOE, CORNER, OUTSIDE, FOR 10MM (3/8") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
4	TS-14096	[TS-600-0366/A] ASSY, SHOE, CONE, 20MM (3/4") DIAMETER, W/MOUNT AND LOCKDOWN SCREWS	1
5	TS-14097	[TS-600-0500/A] ASSY, SHOE, CORNER, INSIDE, FOR 12MM (1/2") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
6	TS-14099	[TS-600-0829/A] ASSY, SHOE, FILLET, FOR 10MM (3/8") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
7	TS-14100	[TS-600-0830/A] ASSY, SHOE, FILLET, FOR 12MM (1/2") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
8	TS-14102	[TS-600-0837.3/A] ASSY, SHOE, 3 BEAD (5/8") SLANT, W/MOUNT AND LOCKDOWN SCREWS	1
9	TS-14104	[TS-600-0838/A] ASSY, SHOE, CORNER, OUTSIDE, FOR 12MM (1/2") SHEET THICKNESS, W/MOUNT AND LOCKDOWN SCREWS	1
10	TS-14108	[TS-600-60/A] ASSY, SHOE, OVERLAP, W/MOUNT, FOR 1.0-2.0MM (40-80 MIL) SHEET THICKNESS	1
11	TS-14109	[TS-600-60-AEG/A] ASSY, SHOE, OVERLAP, NARROW FOR 1.0-2.0mm (40-80mil) SHEET THICKNESS	1
12	TS-14098	[TS-600-0600/A] ASSY, SHOE, CONE, 15MM (5/8") DIAMETER, W/MOUNT AND LOCKDOWN SCREWS	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.

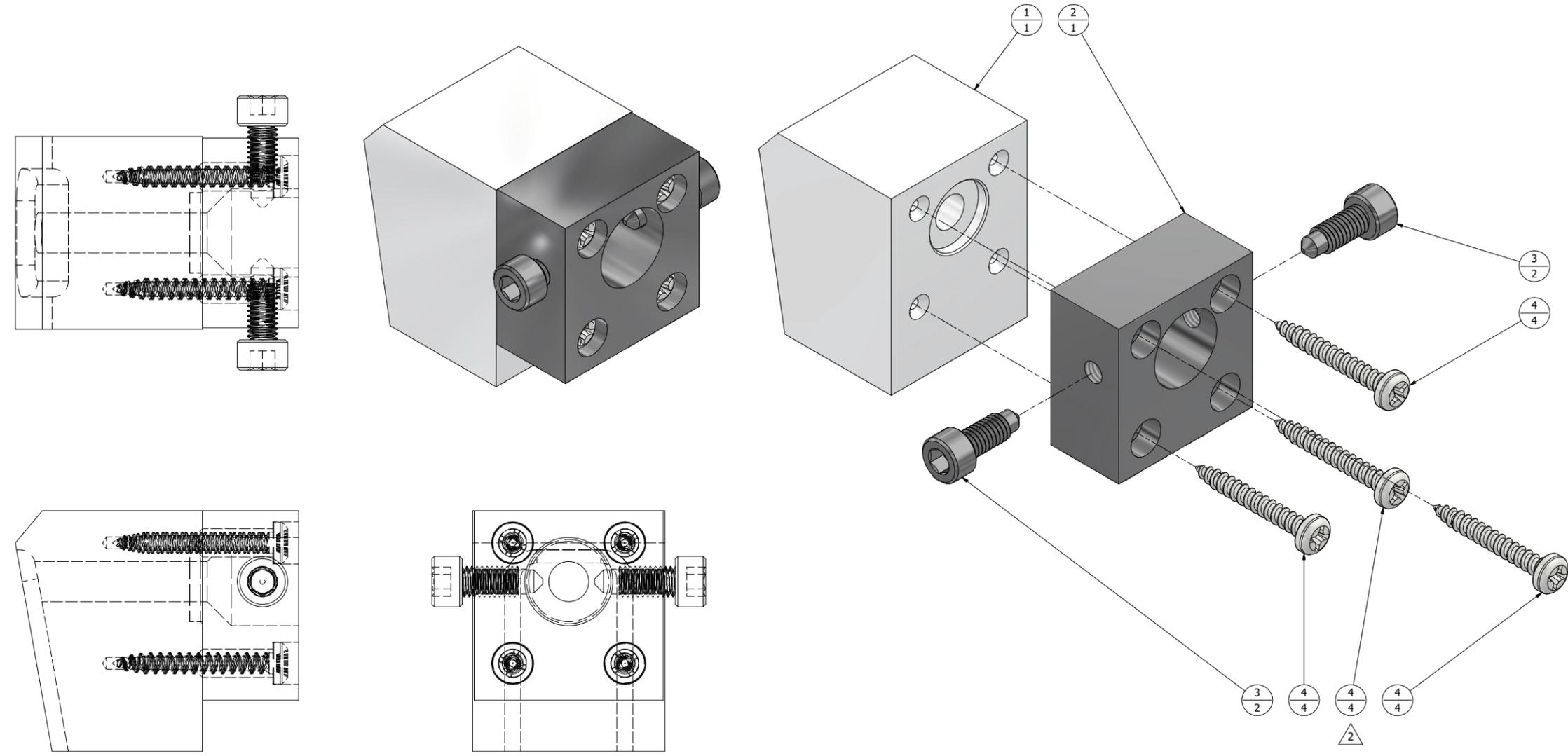
NOTES (UNLESS OTHERWISE SPECIFIED):

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIMS AND TOLS PER ASME Y14.5-2009		DRAWN FRK	02/27/2026	DEMTECH Services, Inc. Placerville, California	
STANDARD TOLERANCES		CHECKED		TITLE	
DECIMALS	SURFACE FINISH 63/ XX ± .02	QA		[TS-600-XXXX/A] ASSY'S, OPTIONAL TEFLON SHOES	
ANGLES ± 1°	FRACTIONS ± 1/16	MFG		SIZE	DWG NO
		APPROVED		D	TS-600-XXXX_A
				SCALE	REV
				1:1	A
DO NOT SCALE DRAWING				SHEET 1 OF 1	

8 PROPRIETARY DATA NOTICE
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2		DWG NO TS-600-60/A	SH 1	REV B	1
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)

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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	SURFACE FINISH 63/	QA		[TS-600-60/A] ASSY, SHOE, OVERLAP FOR 1.0-2.0mm (40-80mil) SHEET THICKNESS	
XX ± .02	ANGLES ± 1°	MFG		SIZE	DWG NO
XXX ± .005	FRACTIONS ± 1/16	APPROVED		D	TS-14108
MATERIAL				SCALE	REV
SEE PARTS LIST				2:1	B
FINISH				SHEET 1 OF 1	
N/A					
DO NOT SCALE DRAWING					

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):