

# ***TELEMARK*** 568 UHV E-Beam Source Drawings

The current version of this drawing pdf can be found at

<https://telemark.com/uhv-e-beam-sources/uhv-sources/>

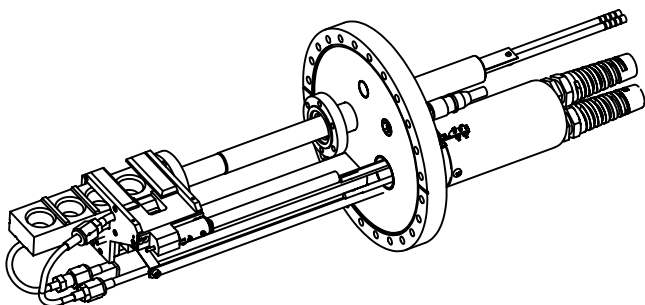
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# Reference Dimensions

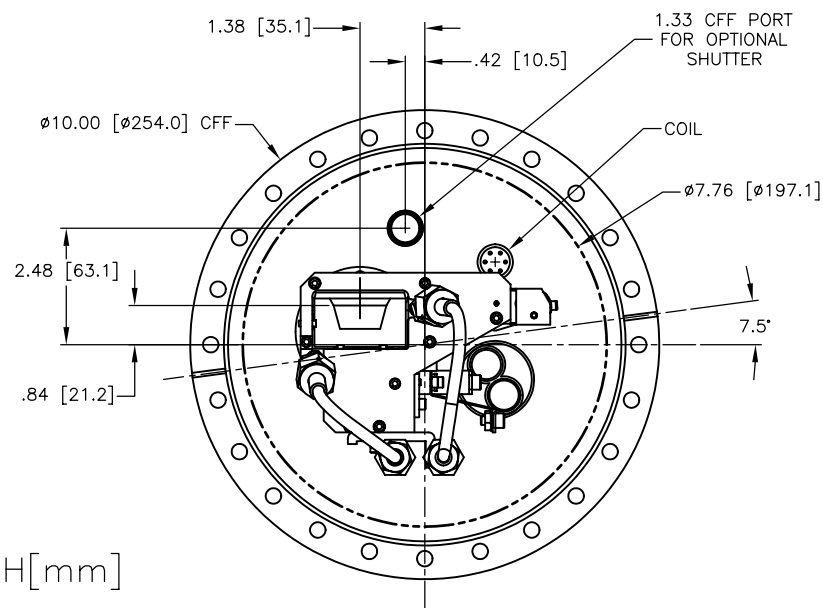
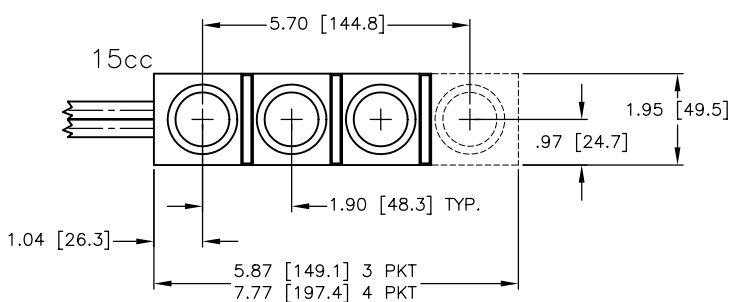
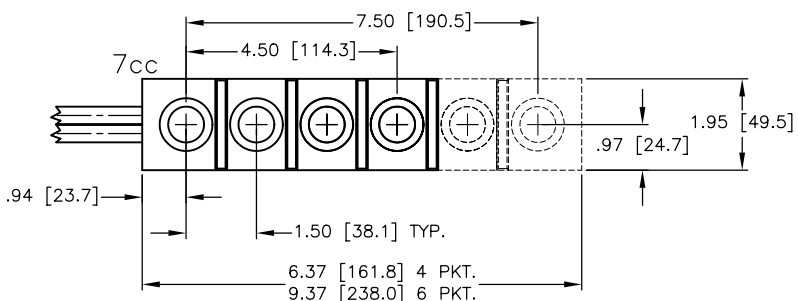
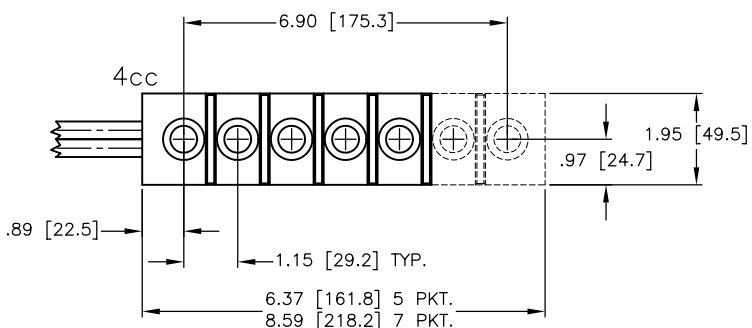
## **E-Beam Source**

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	C	ADD "C"	8/10/06	
	D	ADD DIMENSION	9/20/06	
	E	RE DIMENSION	9/9/08	

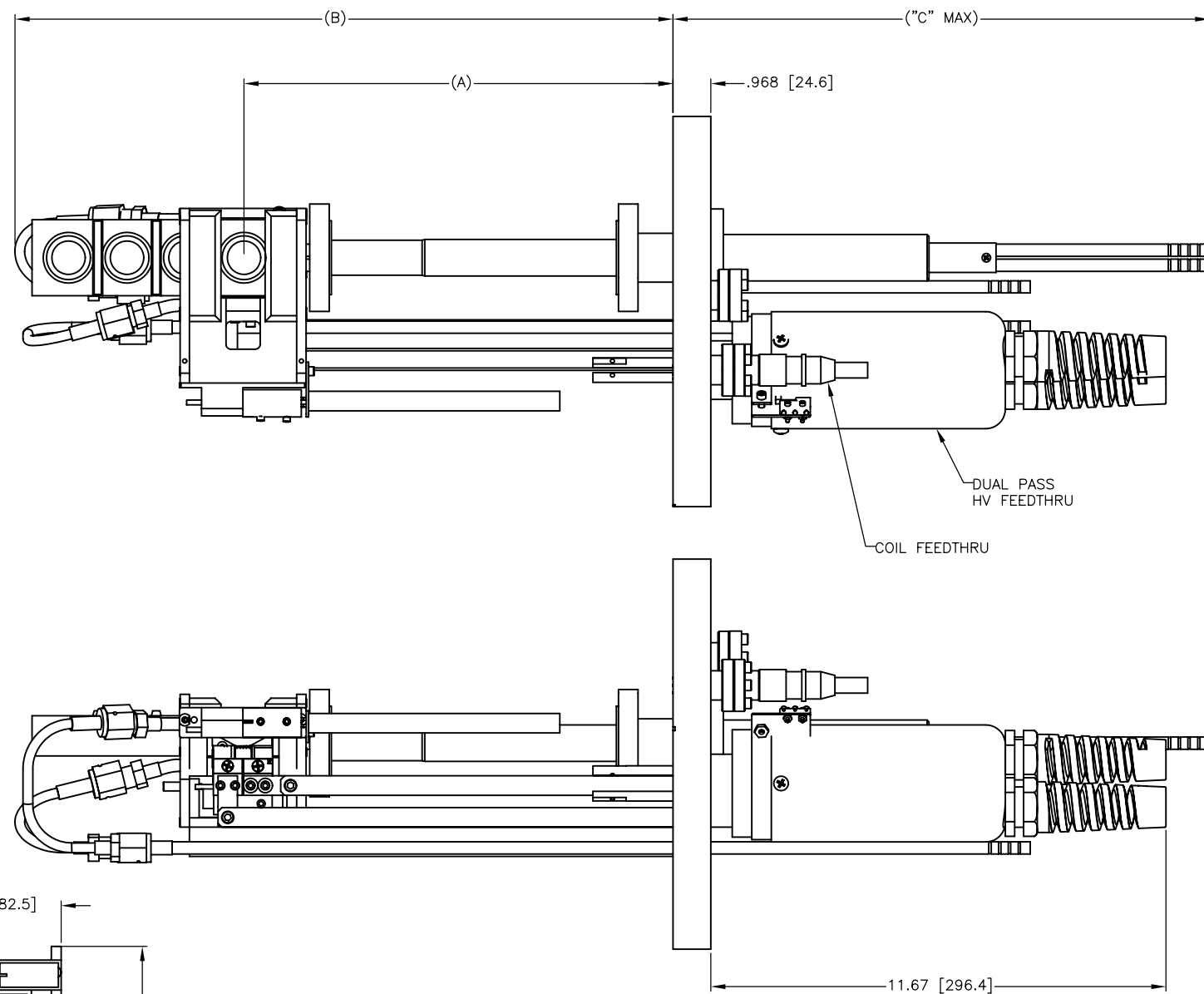
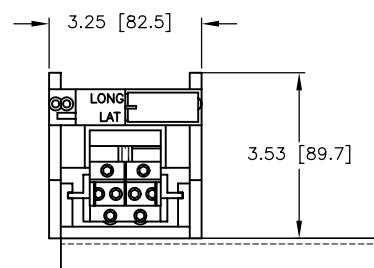


ISOMETRIC VIEW

TYPE	"A"		"B"		"C" MAX	
5 x 4cc 4 x 7cc 3 x 15cc	11.000	279.40mm	17.370	441.20mm	17.280	438.91mm
7 x 4cc 6 x 7cc 4 x 15cc	14.500	368.30mm	20.870	530.10mm	16.698	424.13mm





INCH[mm]



CUSTOMER'S APPROVAL:

DATE:

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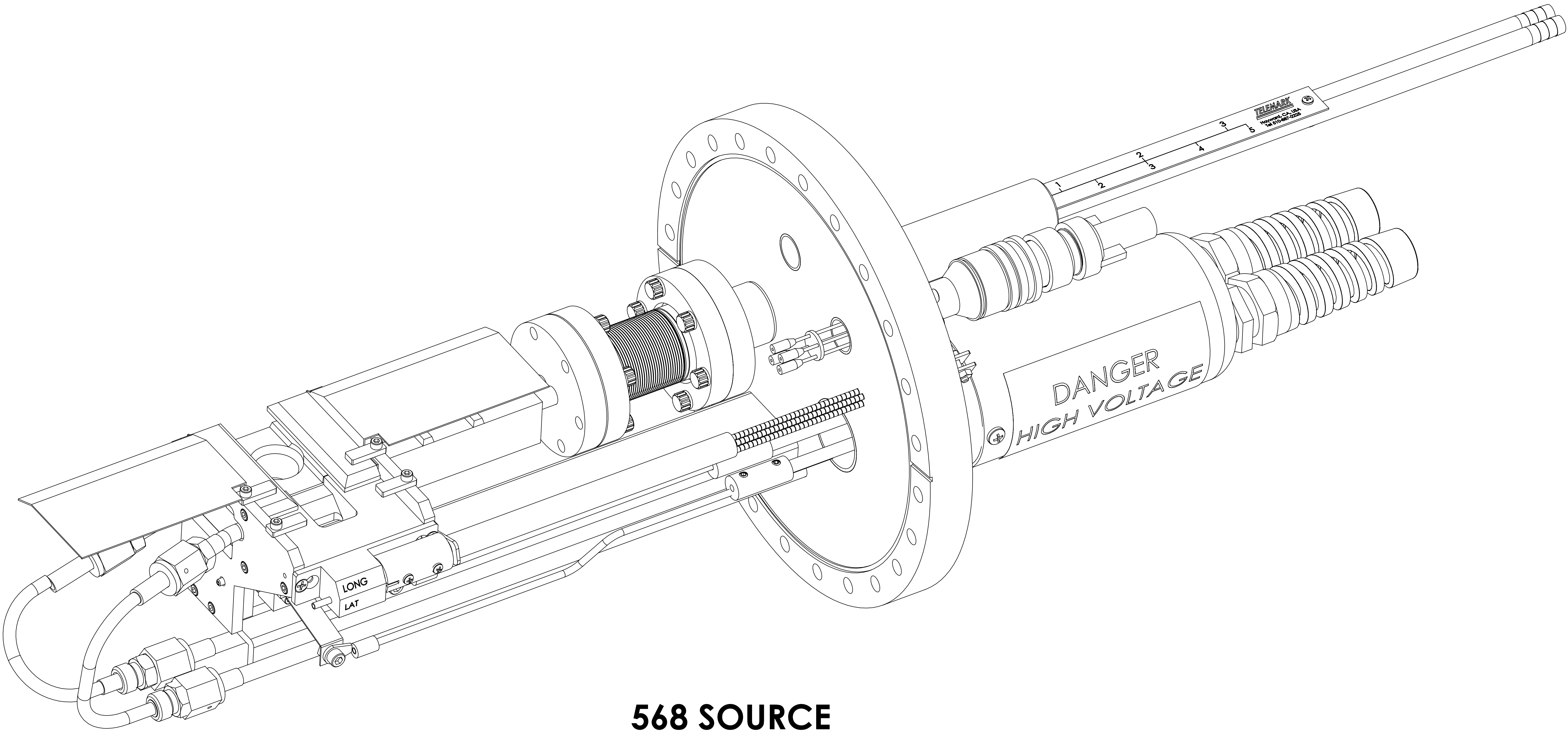
REF	QTY	PART DESCRIPTION		PART NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: .X± .03 .XX± .01 .XXX± .005 ANGLES ±1° DO NOT SCALE DRAWING		APPROVALS	DATE	 51 Whitney Pl. Fremont Ca. 94539
		DRAWN	4/22/04	
		CHECKED		
		ENG.		
MATERIAL		MODEL 568 REF. DIMENSIONS SIZE D DWG. NO. R568-0108 REV E		
FINISH		SCALE: 1:2  SHEET OF		




# Model Assemblies

## **E-Beam Sources**

G			H		I	
ECN	ZONE	REV	DESCRIPTION		BY	DATE
		A	RELEASE FOR PRODUCTION		D. LY	12/5/2006
		B	5 PIN INSTRUMENT F/T CHANGE TO 4 PIN INSTRUMENT FT		D. LY	9/18/2009
		C	UPDATED		GPD	10/29/2015

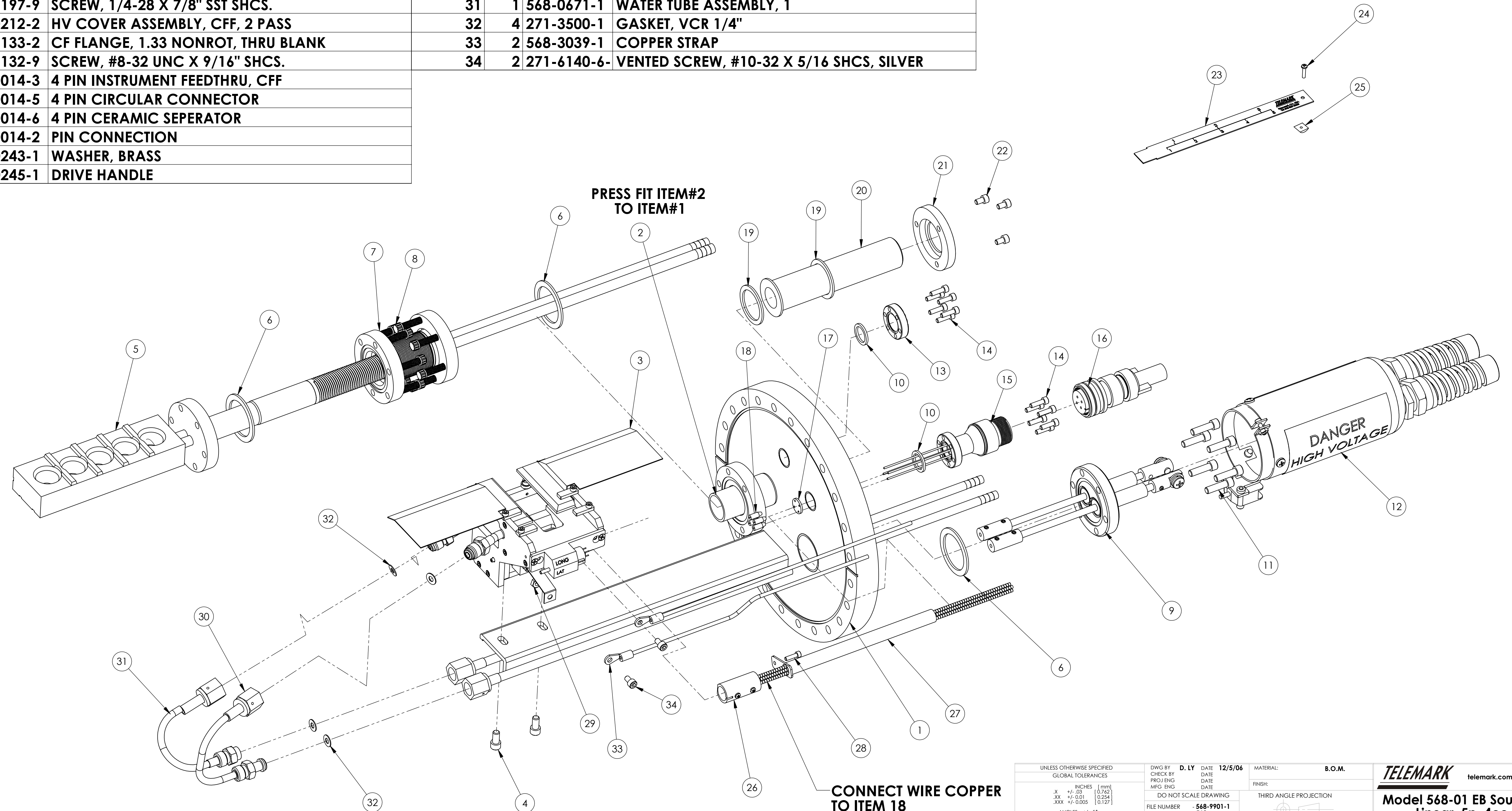


568 SOURCE  
5X4CC

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES			DWG BY C.O.B.M.	DATE 12/5/06	MATERIAL: B.O.M.	
			CHECK BY PROJ ENG	DATE	FINISH:	
			MFG ENG	DATE	THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING						
FILE NUMBER 568-9901-1			INITIAL PROJECT 568			
INCHES [mm] .X +/- .03 [0.762] .XX +/- .001 [0.254] .XXX +/- .0005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS						
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D		SCALE 1:1	DWG NO. 568-9901-1		REV C	
SHEET 1 of 3		TELEMARK Model 568-01 EB Source, Linear, 5p, 4cc telemark.com				



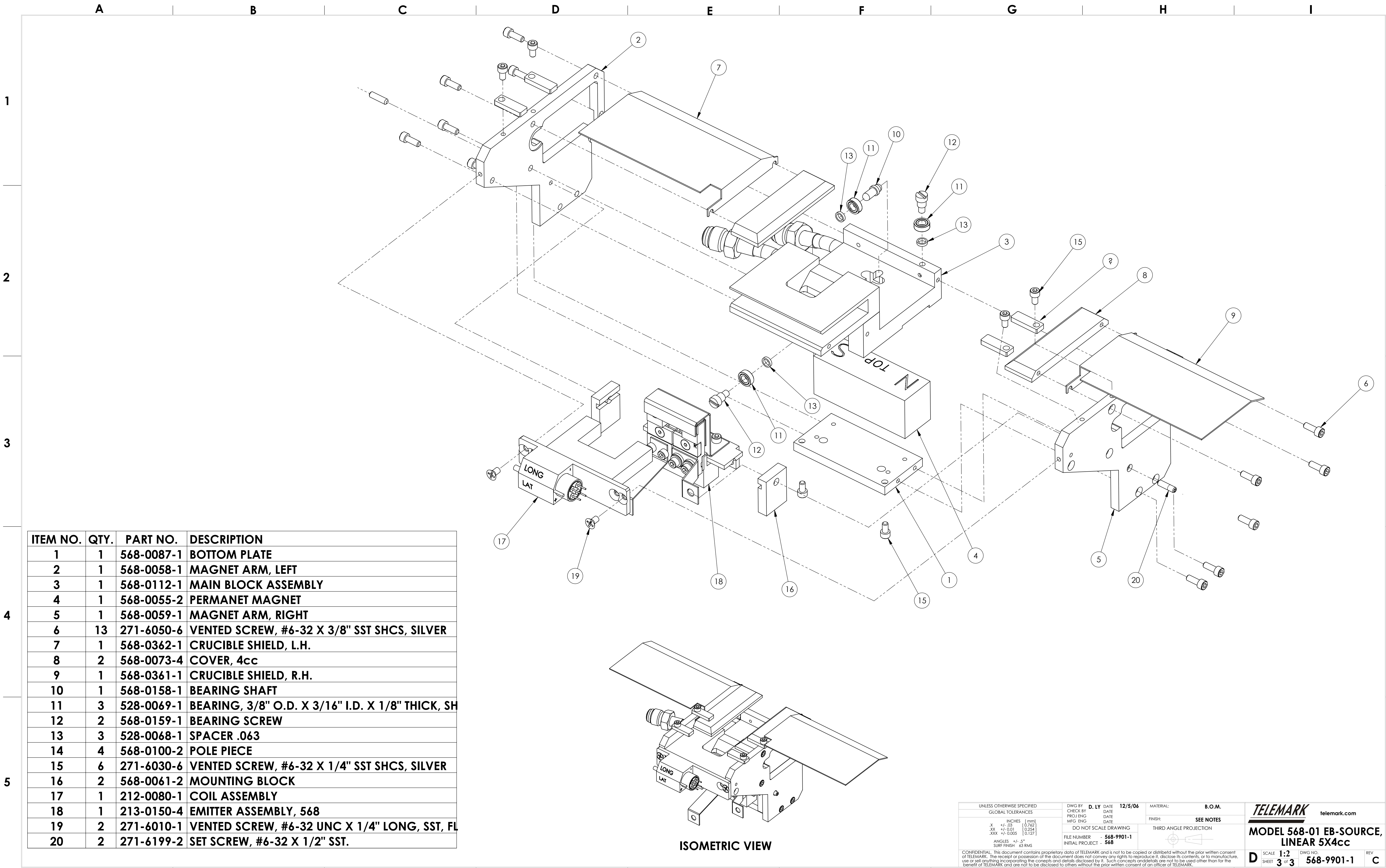
A				B				C				D				E				F				G				H				I			
ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION				
1	1	568-0301-1	CF FLANGE	21	1	568-0244-1	COVER																												
2	1	568-0222-1	BUSHING	22	3	271-6140-9	SCREW, #10-32 X 5/16" SST. SHCS																												
3	1	DETAIL 1	SEE SHEET 3	23	1	568-0246-1	INDEX PLATE																												
4	2	271-6190-6-	VENTED SCREW, #1/4-20 X 1/2 SST SHCS. SILVER	24	1	271-6001-9	SCREW, #4-40 X 1/2" SST PHIL PAN HEAD																												
5	1	568-0204-3	CRUCIBLE ASSEMBLY, 5 X 4cc	25	1	528-0247-1	INDEX PLATE CLAMP																												
6	3	271-3601-1	GASKET, CFF 2.75"	26	1	272-0125-3	COIL CONNECTOR ASSY., UHV																												
7	1	568-0226-1	BELLOWS	27	1	568-0632-1	COIL LEAD SUPPORT TUBE ASSY. STD. ILG																												
8	12	271-6194-8	#1/4-28 X 1" SST 12 Pt, SILVER	28	1	271-6060-6	VENTED SCREW, #6-32 X 1/2" SST SHCS, SILVER																												
9	1	275-0019-1	DUAL PASS HV FEEDTHRU	29	2	271-6255-1	NUT, #10-32 UNF, SST																												
10	2	271-5381-1	GASKET, CFF 1.33"	30	1	568-0672-1	WATER TUBE ASSEMBLY, 2																												
11	6	271-6197-9	SCREW, 1/4-28 X 7/8" SST SHCS.	31	1	568-0671-1	WATER TUBE ASSEMBLY, 1																												
12	1	275-0212-2	HV COVER ASSEMBLY, CFF, 2 PASS	32	4	271-3500-1	GASKET, VCR 1/4"																												
13	1	271-5133-2	CF FLANGE, 1.33 NONROT, THRU BLANK	33	2	568-3039-1	COPPER STRAP																												
14	12	271-6132-9	SCREW, #8-32 UNC X 9/16" SHCS.	34	2	271-6140-6-	VENTED SCREW, #10-32 X 5/16 SHCS, SILVER																												
15	1	275-0014-3	4 PIN INSTRUMENT FEEDTHRU, CFF																																
16	1	275-0014-5	4 PIN CIRCULAR CONNECTOR																																
17	1	275-0014-6	4 PIN CERAMIC SEPERATOR																																
18	4	275-0014-2	PIN CONNECTION																																
19	2	568-0243-1	WASHER, BRASS																																
20	1	568-0245-1	DRIVE HANDLE																																



## CONNECT WIRE COPPER TO ITEM 18

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES	DWG BY: <b>C.D.</b> DATE: <b>12/5/06</b> PROJ: ENG MFG: ENG	MATERIAL:  FINISH:	B.O.M.  telemark.com	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;"><b>TELEMARK</b></p> <p style="text-align: center; margin: 0;">Model 568-01 EB Source, Linear, 5p, 4cc</p> </div> <p>FILE NUMBER: <b>-568-9901-1</b>          INITIAL PROJECT: <b>568</b></p> <div style="text-align: center;"> <p>THIRD ANGLE PROJECTION</p> </div>
INCHES (mm) X 4/- .030 (0.762) .XX +0/- .001 (0.254) .XX +0/- .005 (0.127)	ANGLES SURF FINISH 63 RMS			





ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-4	COVER, 4cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SH
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST, FL
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.

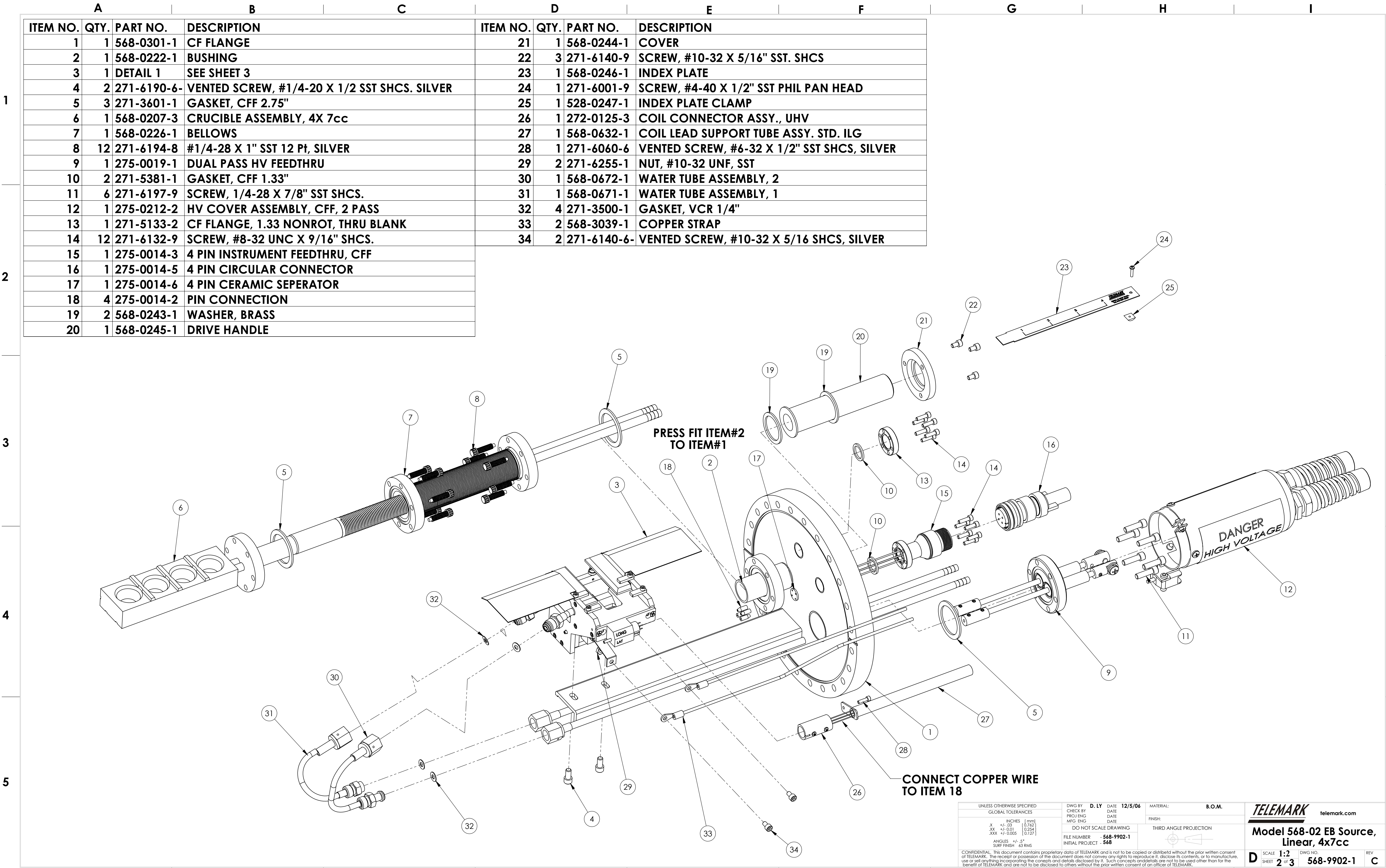
ISOMETRIC VIEW

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY: D. LY CHECK BY: DATE: 12/5/06 PROJ ENG: DATE: MFG ENG: DATE:	MATERIAL: B.O.M.
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127]		DO NOT SCALE DRAWING	FINISH: SEE NOTES
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER: 568-9901-1 INITIAL PROJECT: 568	THIRD ANGLE PROJECTION
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TELEMAR telemark.com		MODEL 568-01 EB-SOURCE, LINEAR 5X4cc	
D	SCALE 1:2 SHEET 3 of 3	DWG NO. 568-9901-1	REV C

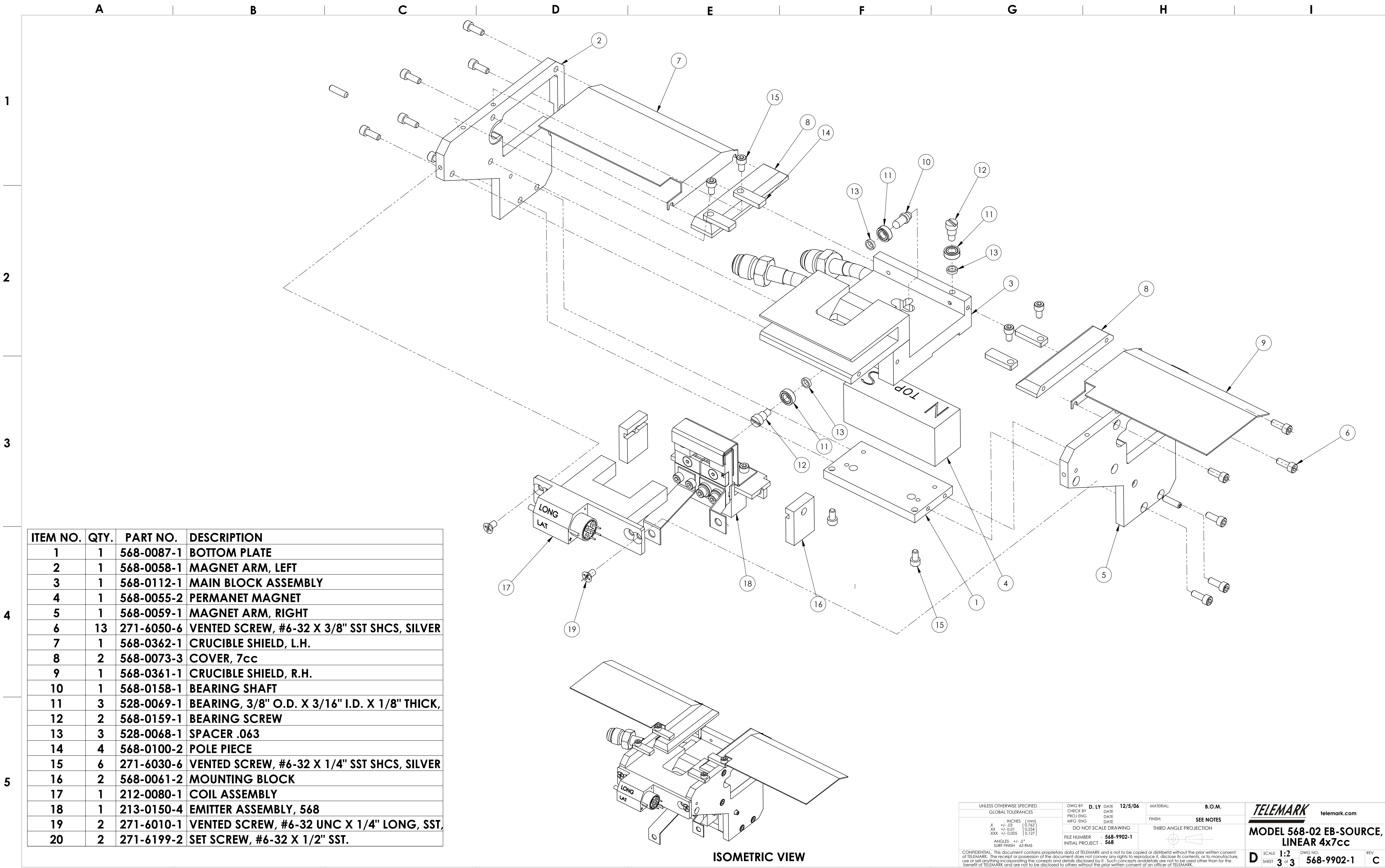












ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-3	COVER, 7cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK,
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST,
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.

ISOMETRIC VIEW

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY: D. LY CHECK BY: DATE: 12/5/06 PROJ ENG: DATE: MFG ENG: DATE:	MATERIAL: B.O.M.
INCHES [mm] .X +/- .03 [0.762] .XX +/- .001 [0.254] .XXX +/- .0005 [0.127]		DO NOT SCALE DRAWING	FINISH: SEE NOTES
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER: 568-9902-1 INITIAL PROJECT: 568	THIRD ANGLE PROJECTION
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TELEMAR telemark.com		MODEL 568-02 EB-SOURCE, LINEAR 4x7cc	
D	SCALE 1:2 SHEET 3 of 3	DWG NO. 568-9902-1	REV C

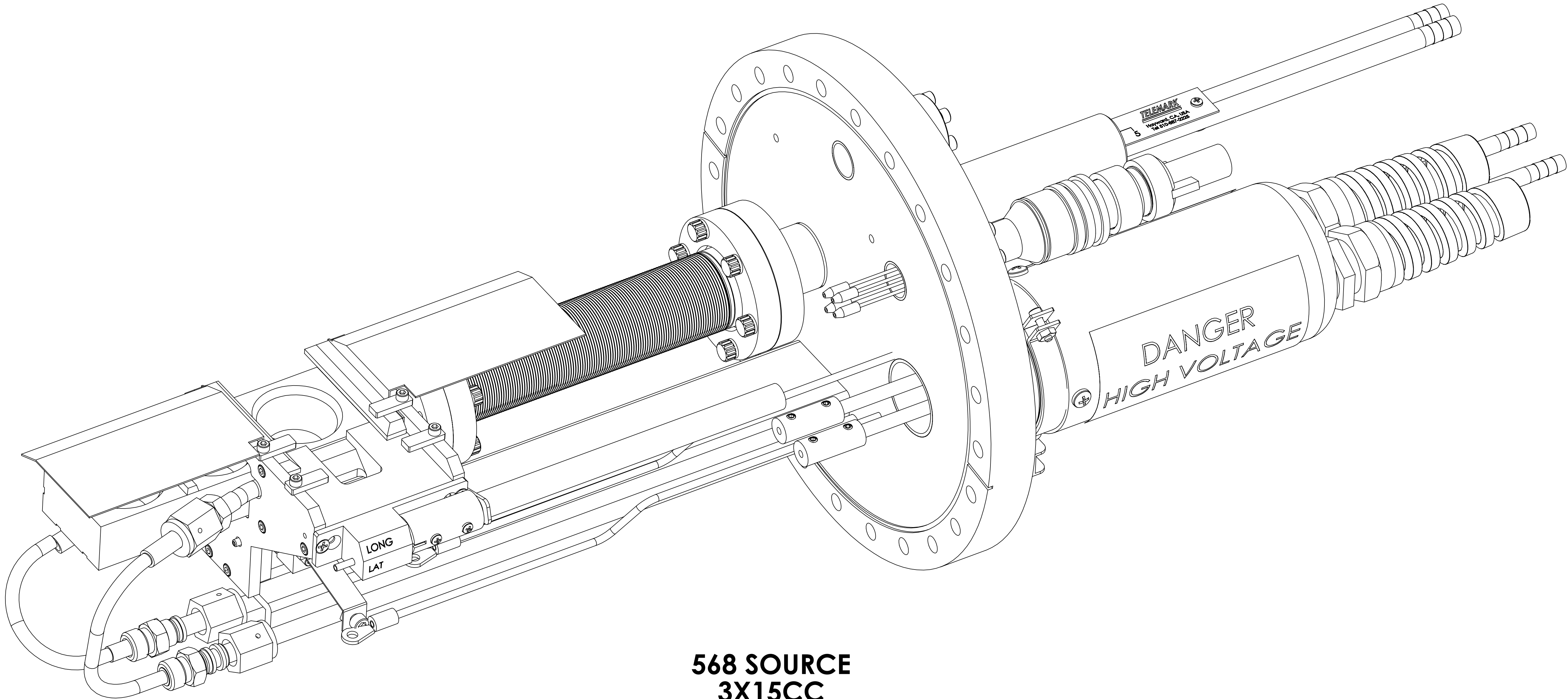


- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE BURRS & BREAK ALL SHARP EDGES  
.005-.015 RAD OR CHAMF.

2. ALL SUFACE

3. BAG WITH PART NUMBER AND REVISION.

REVISIONS					
ECN#	ZONE	REV	DESCRIPTION	DATE	CHG BY
		A	RELEASE FOR PRODUCTION	12/7/2006	D. LY
		B	CHANGE POLE PIECE, ARM MATERIAL	12/15/2009	D. LY
		C	UPDATED	10/29/2015	GPD



UNLESS OTHERWISE SPECIFIED

GLOBAL TOLERANCES

.X

+/- .03

[.762]

.XX

+/- .001

[.0254]

.XXX

+/- .0005

[.0127]

ANGLES

+/- .5°

SURF FINISH

63 RMS

DWG BY

D. LY

DATE

12/5/06

CHECK BY

DATE

PROJ ENG

DATE

MFG ENG

DATE

DO NOT SCALE DRAWING

FILE NUMBER

568-9903-1

INITIAL PROJECT

568

MATERIAL:

B.O.M.

FINISH:

THIRD ANGLE PROJECTION

TELEMARK

telemark.com

Model 568-03 EB Source,  
Linear, 3x15cc

D

SCALE

1:1

DWG NO.

568-9903-1

REV

C1



1

2

3

4

5

A

B

C

ITEM NO.

QTY.

PART NO.

DESCRIPTION

1

1

DETAIL 1

SEE SHEET 3

2

1

568-0222-1

BUSHING

3

2

271-6190-6-D

VENTED SCREW, #1/4-20 X 1/2 SST SHCS. SILVER

4

3

271-3601-1

GASKET, CFF 2.75"

5

1

568-0215-3

CRUCIBLE ASSEMBLY, 3X15cc

6

1

568-0226-1

BELLOWS

7

12

271-6194-8

#1/4-28 X 1" SST 12 Pt, SILVER

8

1

275-0019-1

DUAL PASS HV FEEDTHRU

9

2

271-5381-1

GASKET, CFF 1.33"

10

6

271-6197-9

SCREW, 1/4-28 X 7/8" SST SHCS.

11

1

275-0212-2

HV COVER ASSEMBLY, CFF, 2 PASS

12

1

271-5133-2

CF FLANGE, 1.33 NONROT, THRU BLANK

13

12

271-6132-9

SCREW, #8-32 UNC X 9/16" SHCS.

14

1

275-0014-3

4 PIN INSTRUMENT FEEDTHRU, CFF

15

1

275-0014-5

4 PIN CIRCULAR CONNECTOR

16

1

275-0014-6

4 PIN CERAMIC SEPERATOR

17

4

275-0014-2

PIN CONNECTION

18

2

568-0243-1

WASHER, BRASS

19

1

568-0245-1

DRIVE HANDLE

20

1

568-0244-1

COVER

D

E

F

ITEM NO.

QTY.

PART NO.

DESCRIPTION

21

3

271-6140-9

SCREW, #10-32 X 5/16" SST. SHCS

22

1

568-0246-1

INDEX PLATE

23

1

271-6001-9

SCREW, #4-40 X 1/2" SST PHIL PAN HEAD

24

1

528-0247-1

INDEX PLATE CLAMP

25

1

272-0125-3

COIL CONNECTOR ASSY., UHV

26

1

568-0632-1

COIL LEAD SUPPORT TUBE ASSY. STD. ILG

27

1

271-6060-6

VENTED SCREW, #6-32 X 1/2" SST SHCS, SILVER

28

2

271-6255-1

NUT, #10-32 UNF, SST

29

1

568-0672-1

WATER TUBE ASSEMBLY, 2

30

1

568-0671-1

WATER TUBE ASSEMBLY, 1

31

4

271-3500-1

GASKET, VCR 1/4"

32

2

568-3039-1

COPPER STRAP

33

2

271-6140-6-D

VENTED SCREW, #10-32 X 5/16 SHCS, SILVER

34

1

568-1301-1

CF FLANGE ASSEMBLY,SHORT

1

2

3

4

5

G

H

I

UNLESS OTHERWISE SPECIFIED		DWG BY	D. LY	DATE	12/5/06	MATERIAL:	B.O.M.
GLOBAL TOLERANCES		CHECK BY		DATE		FINISH:	
INCHES [mm]		PROJ ENG		DATE		THIRD ANGLE PROJECTION	
XX +/- .001 [0.0254]		DO NOT SCALE DRAWING		DATE			
XXX +/- .0005 [0.127]		FILE NUMBER	568-9903-1	DATE			
ANGLES +/- .5°		INITIAL PROJECT	568	DATE			
SURF FINISH 63 RMS				DATE			
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TELEMARK

telemark.com

Model 568-03 EB Source, Linear, 3x15cc

568

D

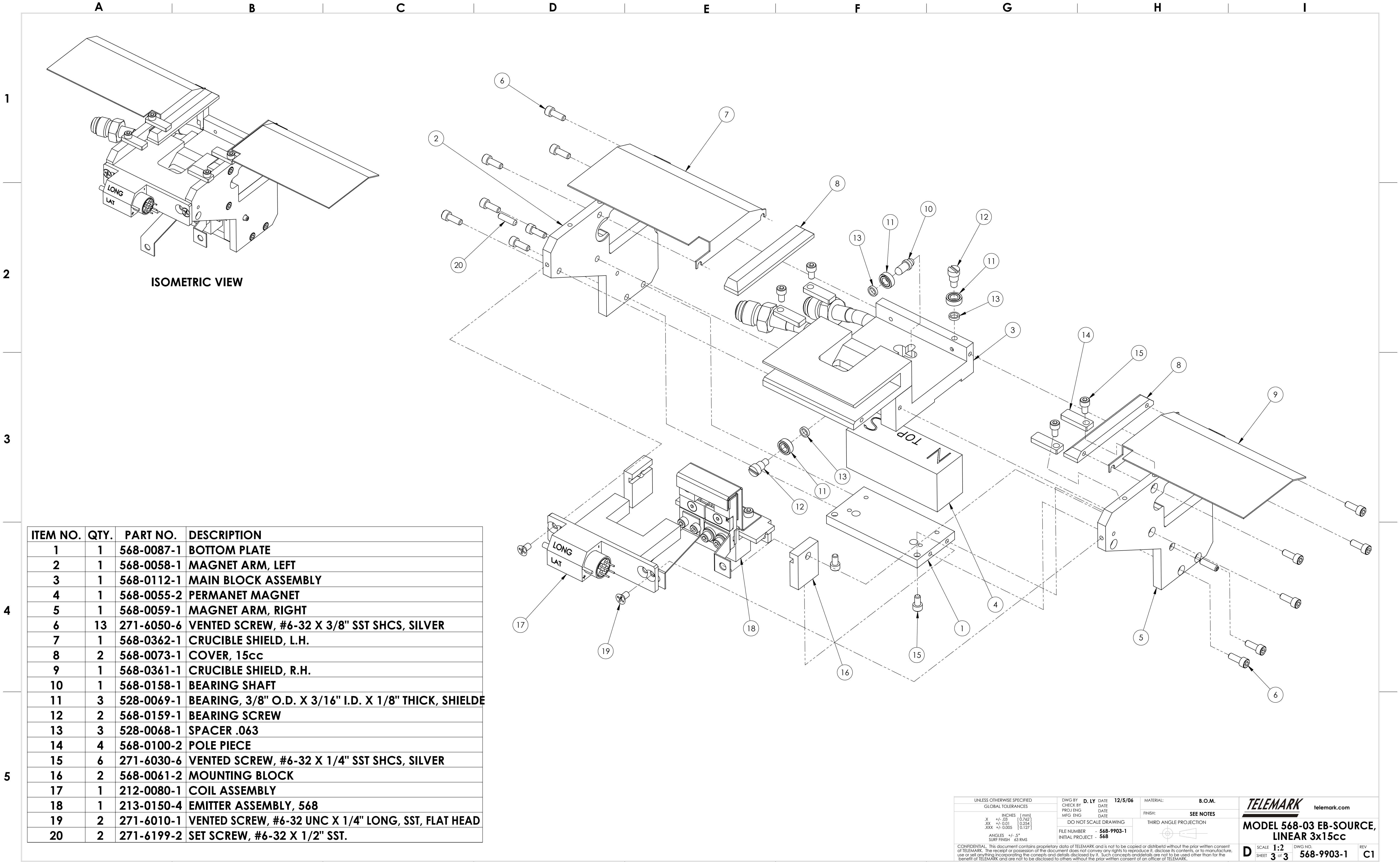
SCALE 1:2

SHEET 2 of 3

DWG NO. 568-9903-1

REV C1





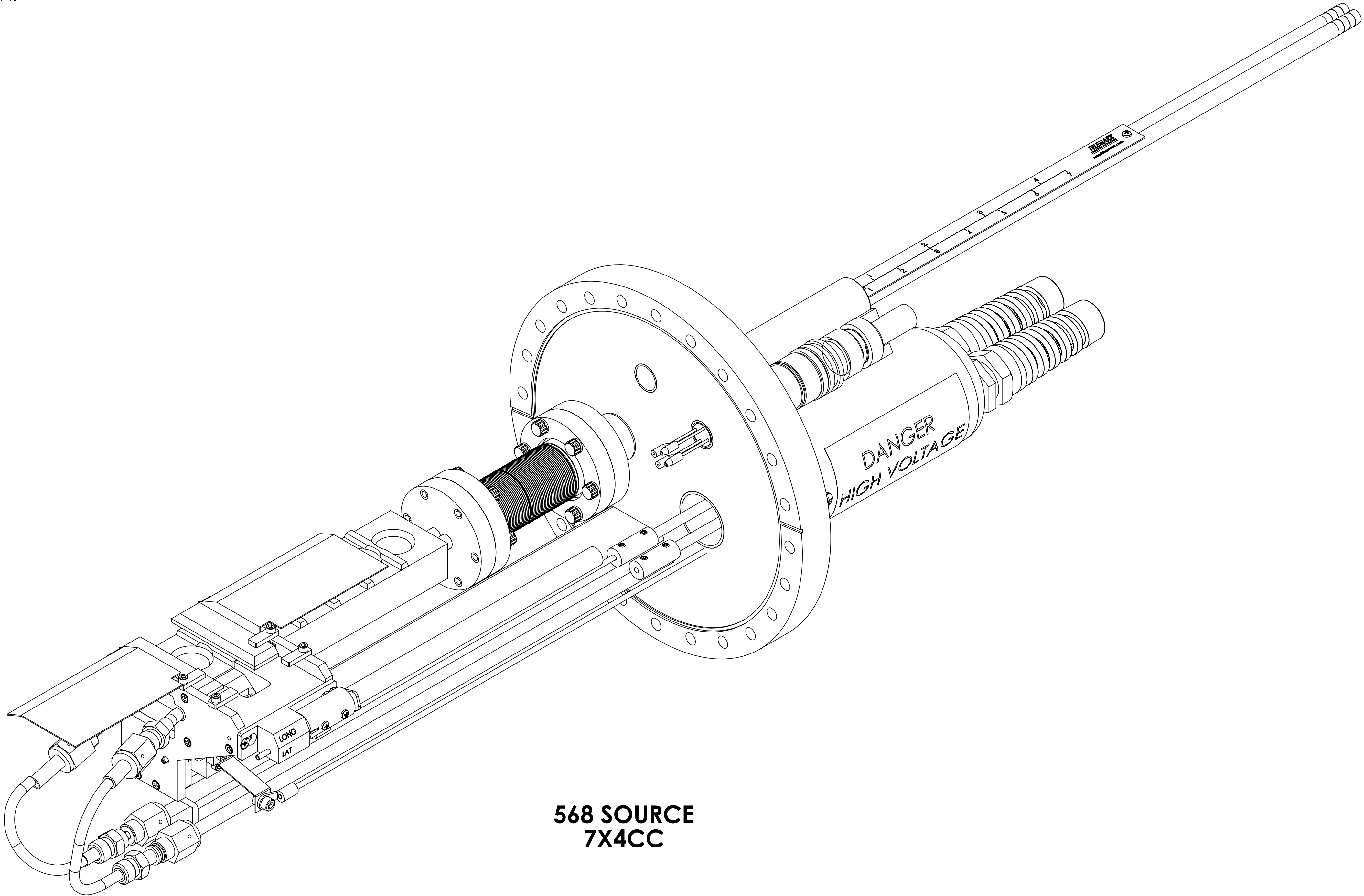
ISOMETRIC VIEW

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-1	COVER, 15cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SHIELDED
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST, FLAT HEAD
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY: D. LY DATE: 12/5/06 CHECK BY: DATE: PROJ ENG: DATE: MFG ENG: DATE:	MATERIAL: B.O.M.
INCHES (mm) .X +/- .03 (0.762) .XX +/- .001 (0.254) .XXX +/- .0005 (0.127)		DO NOT SCALE DRAWING	FINISH: SEE NOTES
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER: 568-9903-1 INITIAL PROJECT: 568	THIRD ANGLE PROJECTION
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TELEMAR telemark.com		MODEL 568-03 EB-SOURCE, LINEAR 3x15cc	
D	SCALE 1:2 SHEET 3 of 3	DWG NO. 568-9903-1	REV C1

- A
- B
- C
- D
- E
- F
- G
- H
- I
- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE BURRS & BREAK ALL SHARP EDGES
- .005-.015 RAD OR CHAMF.
2. ALL SUFACE
3. BAG WITH PART NUMBER AND REVISION.
- 32

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE FOR PRODUCTION	D. LY	11/20/2006
		B	CHANGE THE 5 PIN INSTRUMENT TO 4 PIN INSTRUMENT F/T	D. LY	9/21/2009
		C	UPDATED	GPD	10/29/2015



568 SOURCE  
7X4CC

UNLESS OTHERWISE SPECIFIED		DWG BY	D. LY	DATE	11/21/06	MATERIAL:	B.O.M
GLOBAL TOLERANCES		CHECK BY		DATE		FINISH:	SEE NOTES
		PROJ ENG		DATE		THIRD ANGLE PROJECTION	
		MFG ENG		DATE			
		DO NOT SCALE DRAWING					
		FILE NUMBER					
		INITIAL PROJECT					
		568-9904-1					
		568					

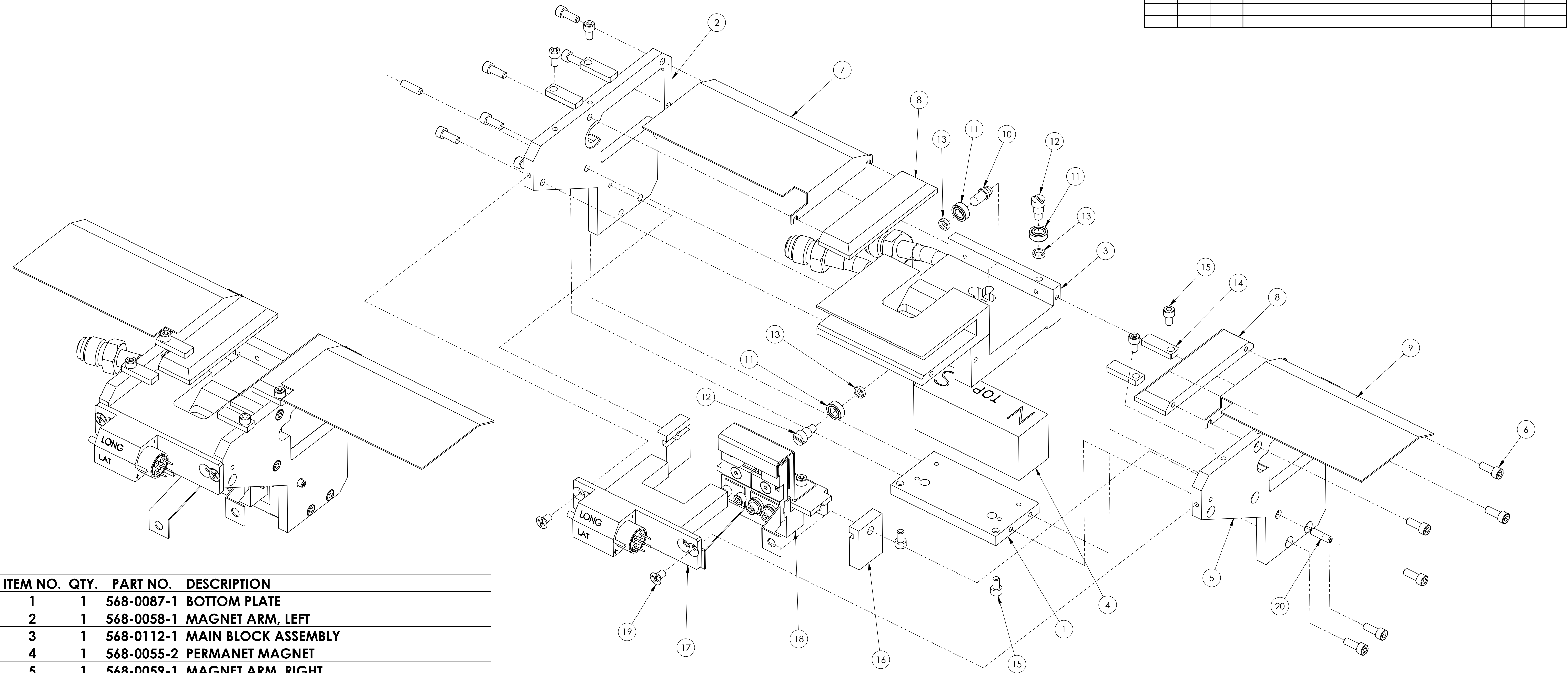







NOTES: (UNLESS OTHERWISE SPECIFIED)

ECN	ZONE	REV	DESCRIPTION	BY	DATE



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-4	COVER, 4cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SH
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST, F
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.

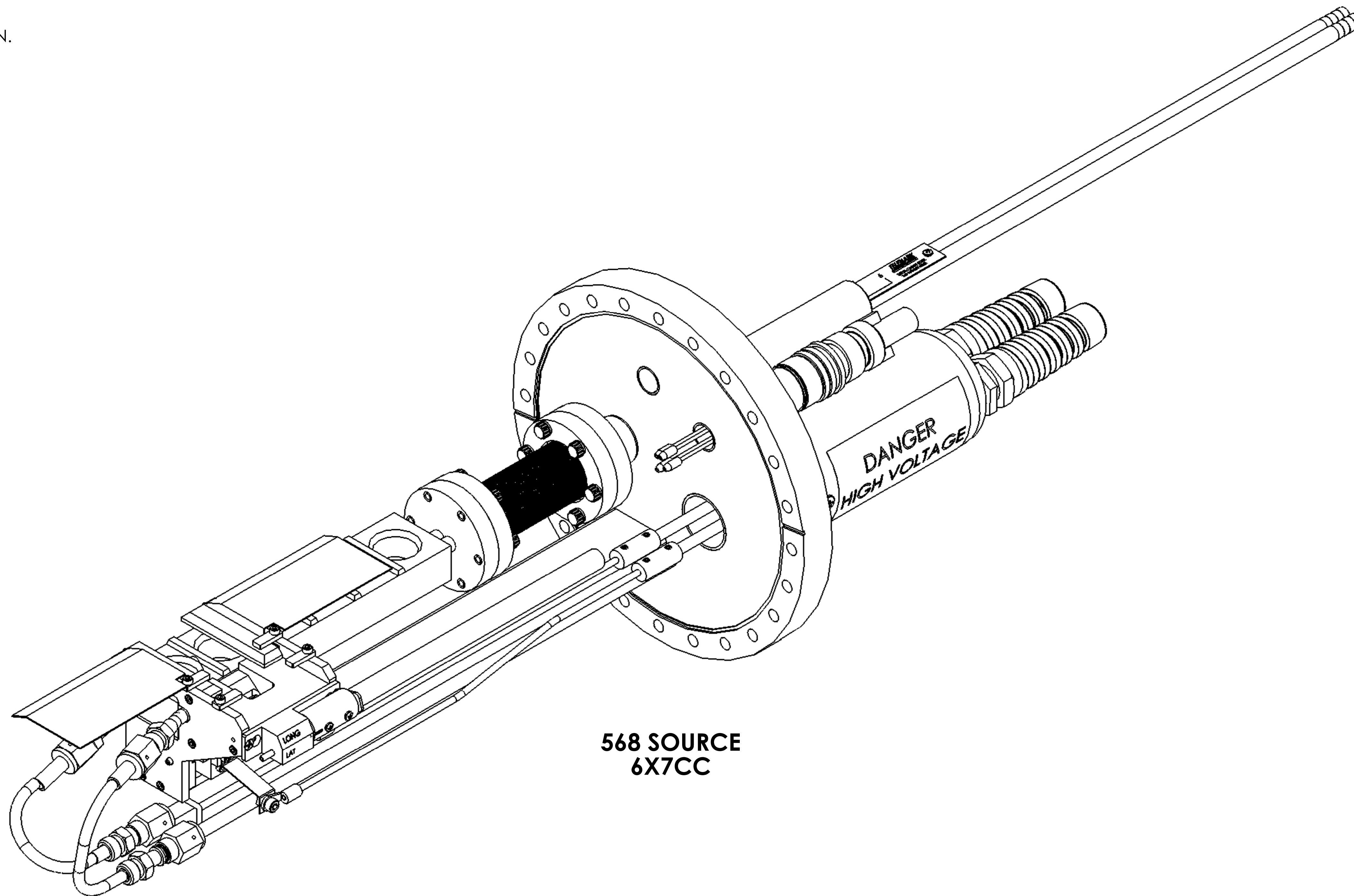
UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY <b>D. LY</b> DATE <b>11/21/06</b>	MATERIAL:		<div><b>TELEMARK</b></div> <div>telemark.com</div>
		CHECK BY	DATE	FINISH:	
		PROJ ENG	DATE		
		MFG ENG	DATE		
		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
		FILE NUMBER <b>-DETAIL 1</b>			
		INITIAL PROJECT			
INCHES (mm) X +/- .03 (0.762) XX +/- .001 (0.254) XXX +/- .0005 (0.127)					
ANGLES +/- .5° SURF FINISH 63 RMS					
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<b>D</b> SCALE <b>1:2</b>		DWG NO. <b>568-9904-1</b>		REV <b>C</b>	
SHEET <b>3 of 3</b>					

1. REMOVE BURRS & BREAK ALL SHARP EDGES  
.005-.015 RAD OR CHAMF.

3. BAG WITH PART NUMBER AND REVISION.

3. BAG WITH PART NUMBER AND REVISION.

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE FOR PRODUCTION	D. LY	11/21/2006
		B	CHANGE THE 5 PIN INSTRUMENT TO 4 PIN INSTRUMENT F/T	D. LY	9/21/2009
		C	UPDATED	GPD	10/29/2015



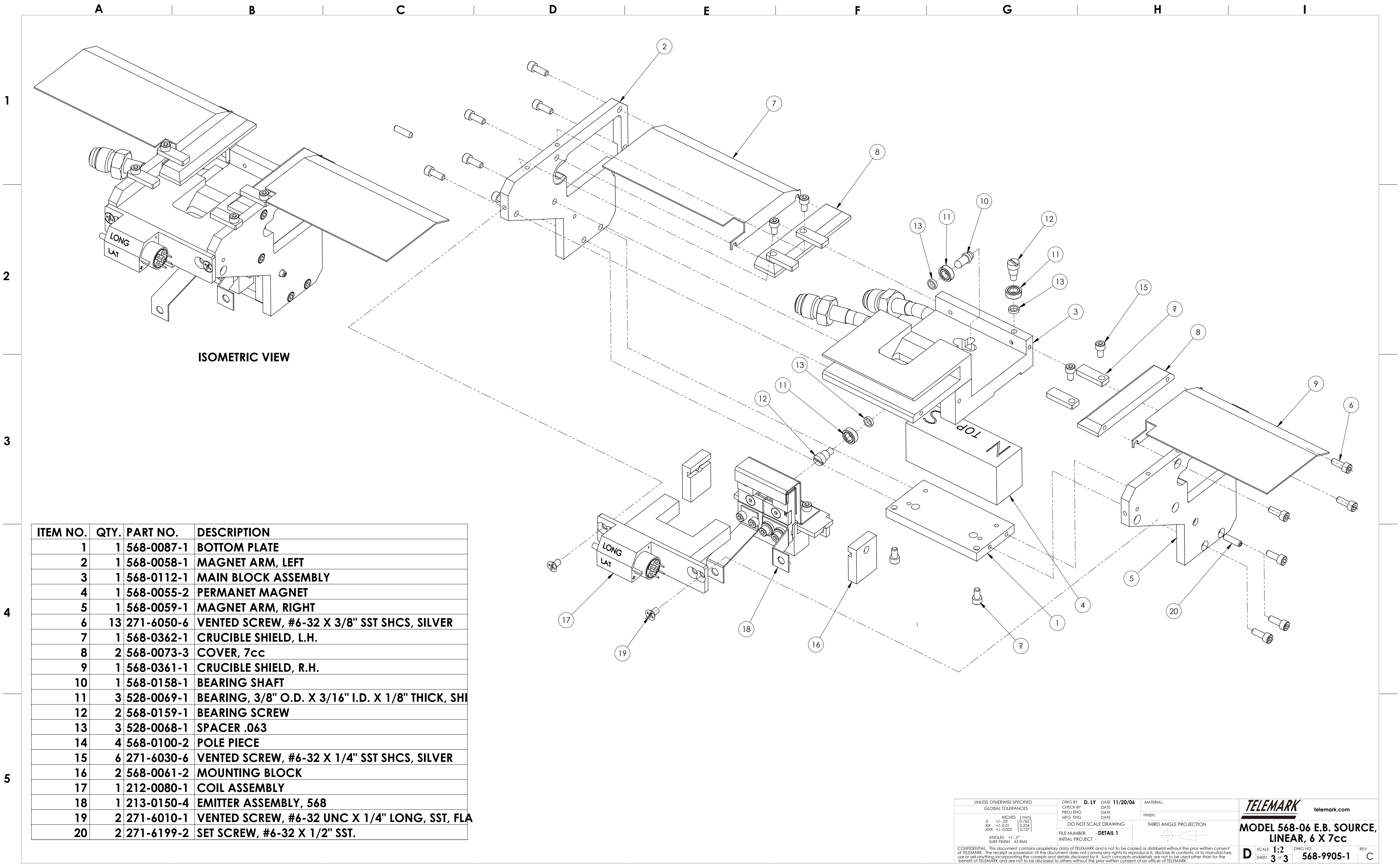
**568 SOURCE  
6X7CC**

UNLESS OTHERWISE SPECIFIED		DWG BY <b>D. LY</b> DATE <b>11/20/06</b>		MATERIAL:		B.O.M		 telemark.com	
GLOBAL TOLERANCES		CHECK BY		FINISH:		SEE NOTES			
INCHES = (mm) .X +/- .03 (0.762) .XX +/- .01 (0.254) .XXX +/- .005 (0.127)		DATE ENG		DATE MFG ENG		DO NOT SCALE DRAWING THIRD ANGLE PROJECTION			
ANGLES +/- .5 SURF FINISH 63 RMS		FILE NUMBER <b>568-9905-1</b>							
		INITIAL PROJECT -							









ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-3	COVER, 7cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SHI
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST, FLA
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY <b>D. LY</b> DATE <b>11/20/06</b>	MATERIAL:
INCHES [mm]		CHECK BY DATE	FINISH:
.X +/- .03 [0.762]		PROJ ENG DATE	
.XX +/- .001 [0.254]		MFG ENG DATE	
.XXX +/- .0005 [0.127]		DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION
ANGLES +/- .5°		FILE NUMBER <b>-DETAIL 1</b>	
SURF FINISH 63 RMS		INITIAL PROJECT	

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**TELEMAR**  
telemark.com

**MODEL 568-06 E.B. SOURCE,  
LINEAR, 6 X 7cc**

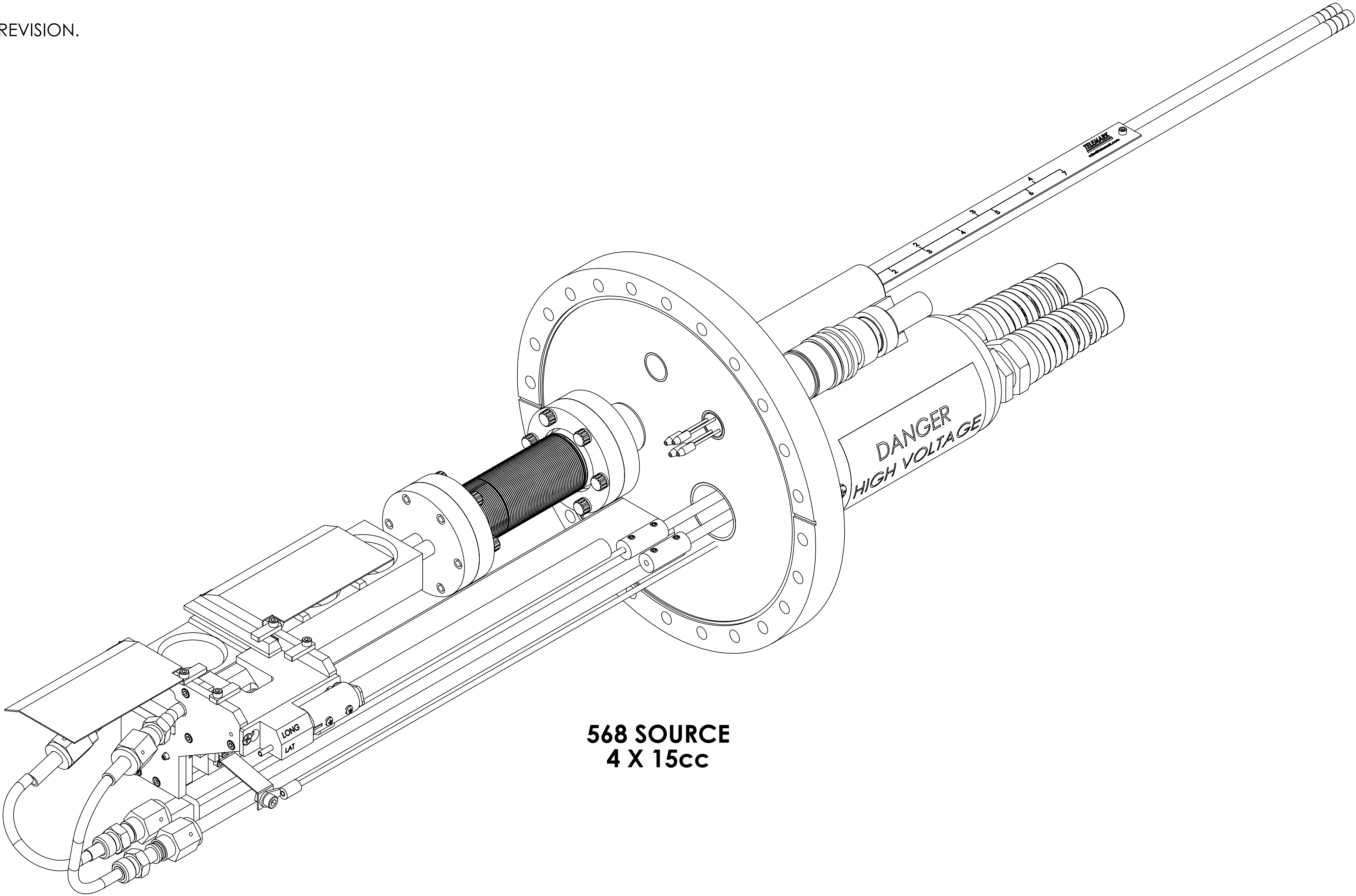
D	SCALE <b>1:2</b>	DWG NO. <b>568-9905-1</b>	REV <b>C</b>
SHEET <b>3 of 3</b>			

- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE BURRS & BREAK ALL SHARP EDGES  
.005-.015 RADIUS OR CHAMFER.

2. ALL SURFACES

3. BAG WITH PART NUMBER AND REVISION.

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		B	CHANGE 5 PIN INSTRUMENT TO 4 PIN INSTRUMENT F/T	D. LY	9/21/2009
		C	UPDATED	GPD	10/30/2015



568 SOURCE  
4 X 15cc

UNLESS OTHERWISE SPECIFIED

GLOBAL TOLERANCES

.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°

SURF FINISH 63 RMS

DWG BY D. LY DATE 11/22/06

CHECK BY DATE

PROJ ENG DATE

MFG ENG DATE

DO NOT SCALE DRAWING

FILE NUMBER 568-9906-1

INITIAL PROJECT -

MATERIAL: B.O.M.

FINISH: SEE NOTES

THIRD ANGLE PROJECTION

TELEMARK

telemark.com

MODEL 568-06 EB SOURCE,  
4 X 15cc

D

SCALE 1:1

SHEET 1 of 3

DWG NO. 568-9906-1

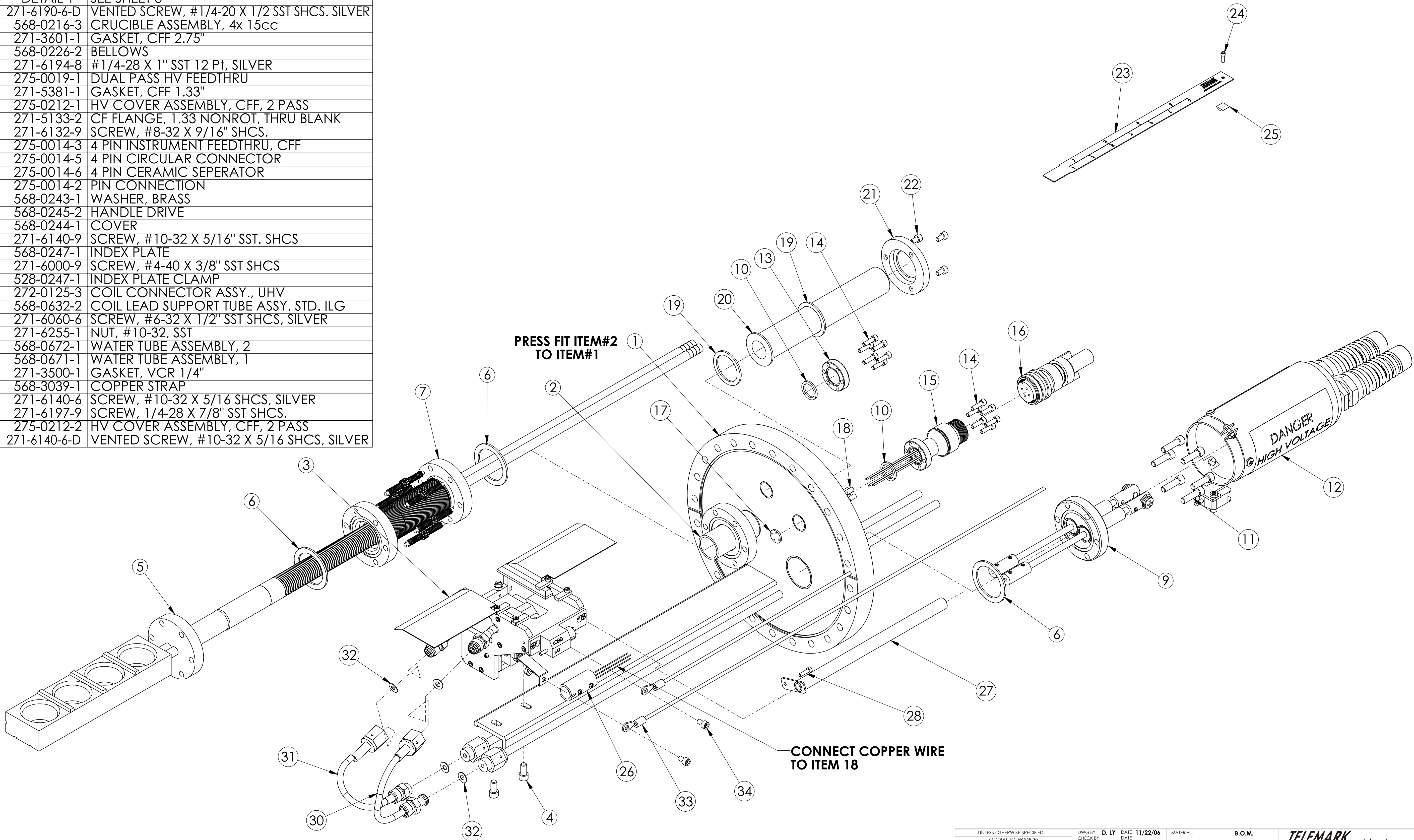
REV C



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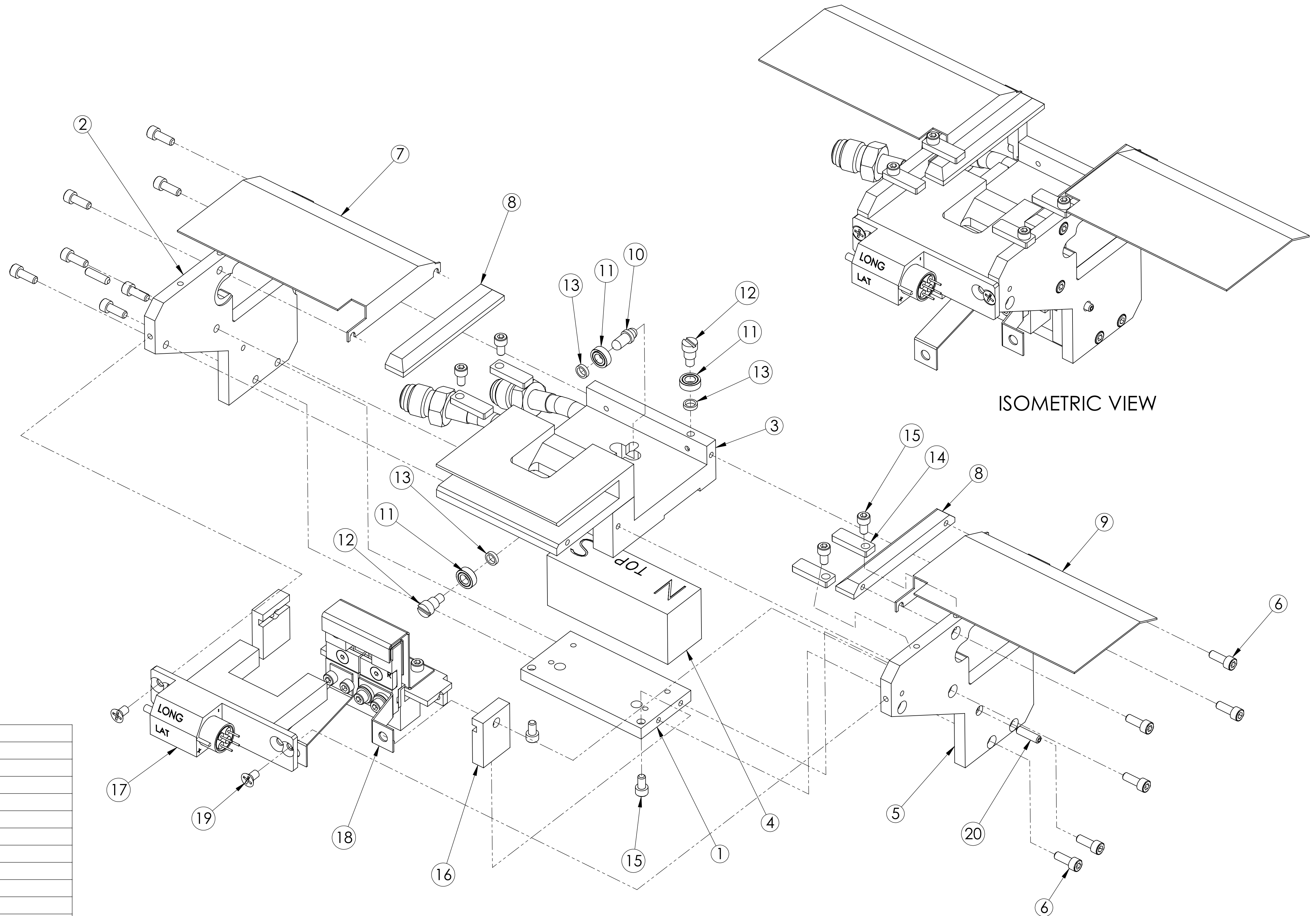
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0301-8	CF FLANGE ASSEMBLY
2	1	568-0222-1	BUSHING
3	1	DETAIL 1	SEE SHEET 3
4	2	271-6190-6-D	VENTED SCREW, #1/4-20 X 1/2 SST SHCS. SILVER
5	1	568-0216-3	CRUCIBLE ASSEMBLY, 4x 15cc
6	3	271-3601-1	GASKET, CFF 2.75"
7	1	568-0226-2	BELLOWS
8	12	271-6194-8	#1/4-28 X 1" SST 12 Pt, SILVER
9	1	275-0019-1	DUAL PASS HV FEEDTHRU
10	2	271-5381-1	GASKET, CFF 1.33"
12	1	275-0212-1	HV COVER ASSEMBLY, CFF, 2 PASS
13	1	271-5133-2	CF FLANGE, 1.33 NONROT, THRU BLANK
14	12	271-6132-9	SCREW, #8-32 X 9/16" SHCS.
15	1	275-0014-3	4 PIN INSTRUMENT FEEDTHRU, CFF
16	1	275-0014-5	4 PIN CIRCULAR CONNECTOR
17	1	275-0014-6	4 PIN CERAMIC SEPERATOR
18	4	275-0014-2	PIN CONNECTION
19	2	568-0243-1	WASHER, BRASS
20	1	568-0245-2	HANDLE DRIVE
21	1	568-0244-1	COVER
22	3	271-6140-9	SCREW, #10-32 X 5/16" SST. SHCS
23	1	568-0247-1	INDEX PLATE
24	1	271-6000-9	SCREW, #4-40 X 3/8" SST SHCS
25	1	528-0247-1	INDEX PLATE CLAMP
26	1	272-0125-3	COIL CONNECTOR ASSY., UHV
27	1	568-0632-2	COIL LEAD SUPPORT TUBE ASSY. STD. ILG
28	1	271-6060-6	SCREW, #6-32 X 1/2" SST SHCS, SILVER
29	2	271-6255-1	NUT, #10-32, SST
30	1	568-0672-1	WATER TUBE ASSEMBLY, 2
31	1	568-0671-1	WATER TUBE ASSEMBLY, 1
32	4	271-3500-1	GASKET, VCR 1/4"
33	2	568-3039-1	COPPER STRAP
34	2	271-6140-6	SCREW, #10-32 X 5/16 SHCS, SILVER
11	6	271-6197-9	SCREW, 1/4-28 X 7/8" SST SHCS.
12	1	275-0212-2	HV COVER ASSEMBLY, CFF, 2 PASS
34	2	271-6140-6-D	VENTED SCREW, #10-32 X 5/16 SHCS, SILVER





UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY <b>D. LY</b> DATE <b>11/22/06</b>	MATERIAL: <b>B.O.M.</b>	
		CHECK BY _____ DATE _____	FINISH: <b>SEE NOTES</b>	
		PROJ ENG _____ DATE _____	THIRD ANGLE PROJECTION	
		MFG ENG _____ DATE _____		
		DO NOT SCALE DRAWING		
		FILE NUMBER <b>568-9906-1</b>		
		INITIAL PROJECT _____		
		ANGLES $\pm .5^\circ$		
		SURF FINISH 63 RMS		
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		<b>TELEMARK</b> telemark.com		
		<b>MODEL 568-06 EB SOURCE, 4 X 15cc</b>		
<b>D</b>	SCALE <b>1:2</b>	DWG NO. <b>568-9906-1</b>	REV <b>C</b>	
	SHEET <b>2 of 3</b>			





ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	568-0087-1	BOTTOM PLATE
2	1	568-0058-1	MAGNET ARM, LEFT
3	1	568-0112-1	MAIN BLOCK ASSEMBLY
4	1	568-0055-2	PERMANET MAGNET
5	1	568-0059-1	MAGNET ARM, RIGHT
6	13	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER
7	1	568-0362-1	CRUCIBLE SHIELD, L.H.
8	2	568-0073-1	COVER, 15cc
9	1	568-0361-1	CRUCIBLE SHIELD, R.H.
10	1	568-0158-1	BEARING SHAFT
11	3	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SHIELDED, SST
12	2	568-0159-1	BEARING SCREW
13	3	528-0068-1	SPACER .063
14	4	568-0100-2	POLE PIECE
15	6	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER
16	2	568-0061-2	MOUNTING BLOCK
17	1	212-0080-1	COIL ASSEMBLY
18	1	213-0150-4	EMITTER ASSEMBLY, 568
19	2	271-6010-1	VENTED SCREW, #6-32 UNC X 1/4" LONG, SST, FLAT HEAD
20	2	271-6199-2	SET SCREW, #6-32 X 1/2" SST.



UNLESS OTHERWISE SPECIFIED		DWG BY <b>D. L.Y</b>	DATE <b>11/22/06</b>	MATERIAL	 telemark.com
GLOBAL TOLERANCES		CHECK BY	DATE		
INCHES (mm)		PROJ/ENG	DATE		
XXX +/- .03 (0.762)		MFG/ENG	DATE		
XXX +/- .001 (0.025)		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
XXX +/- .005 (0.127)		FILE NUMBER - <b>DETAIL 1</b>			
ANGLES +/- .5°		INITIAL PROJECT -			
SURF FINISH 43 RMS					

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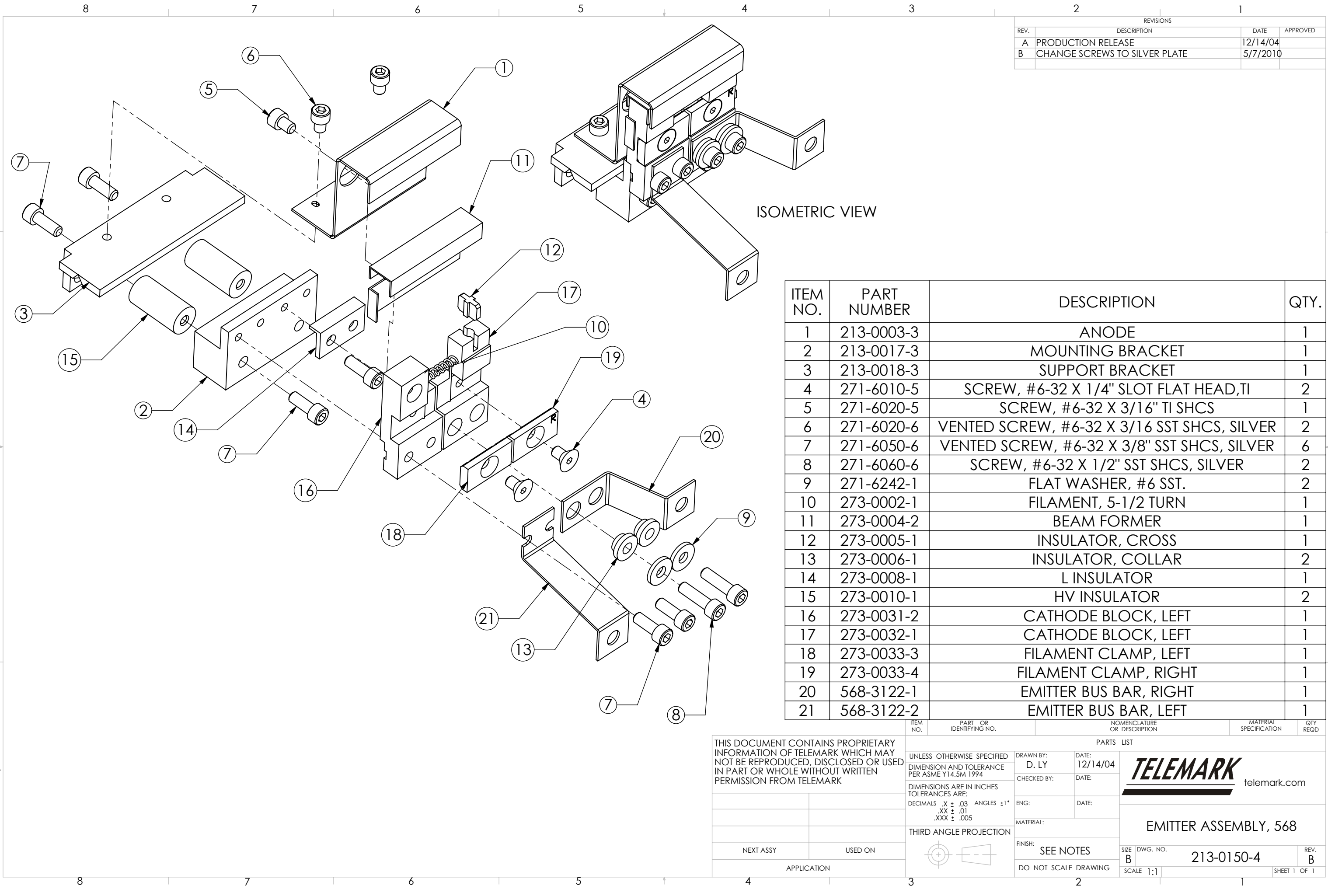
 telemark.com	<b>MODEL 568-06 EB SOURCE,</b> <b>4 X 15cc</b>		D <b>SCALE 1:2</b>	DWG NO.	REV
			SHEET <b>3 of 3</b>	<b>568-9906-1 C</b>	<b>C</b>





# Common Assemblies

**E-Beam Source**



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	12/14/04	
B	CHANGE SCREWS TO SILVER PLATE	5/7/2010	

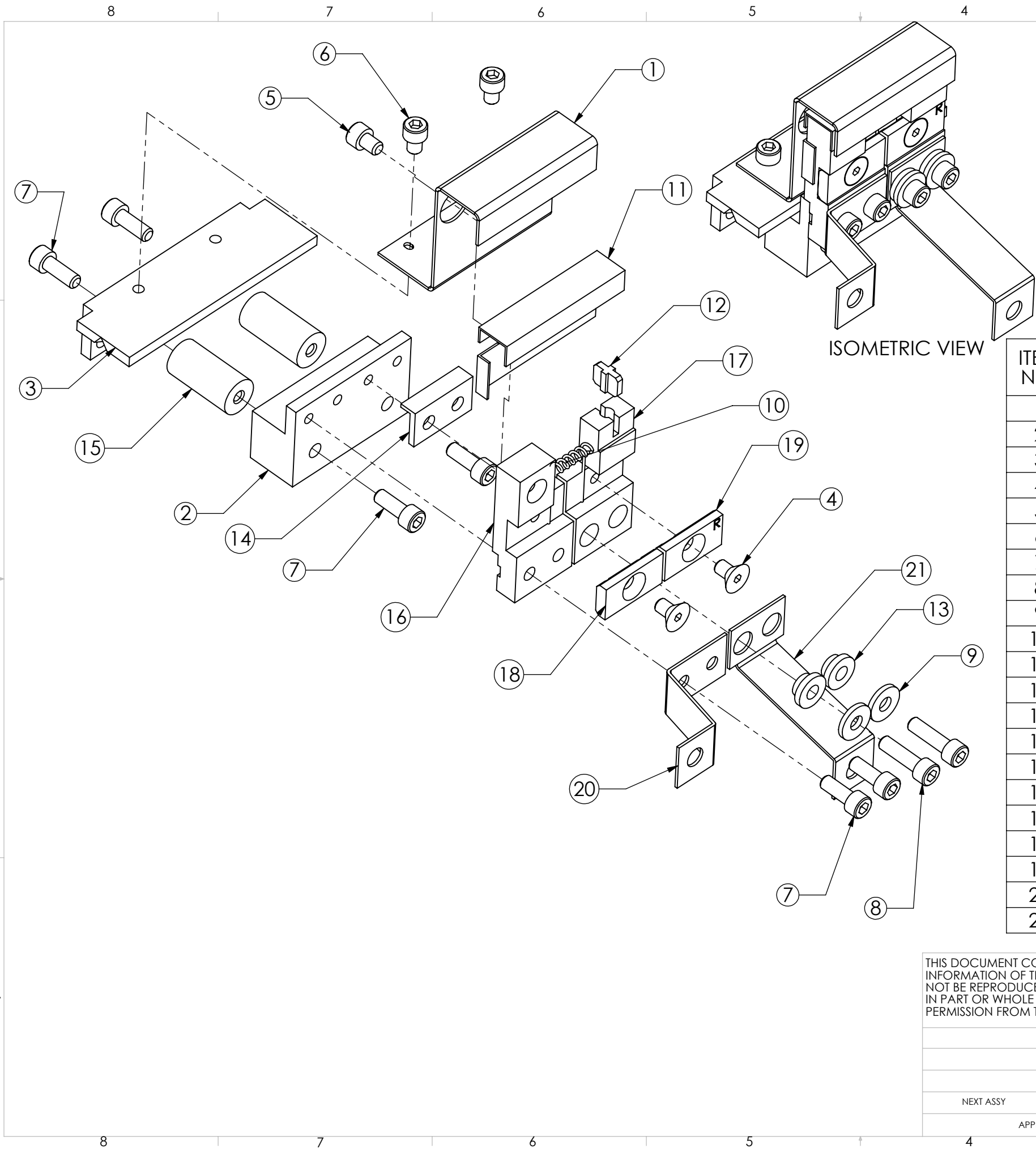
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	213-0003-3	ANODE	1
2	213-0017-3	MOUNTING BRACKET	1
3	213-0018-3	SUPPORT BRACKET	1
4	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD,TI	2
5	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
6	271-6020-6	VENTED SCREW, #6-32 X 3/16 SST SHCS, SILVER	2
7	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	6
8	271-6060-6	SCREW, #6-32 X 1/2" SST SHCS, SILVER	2
9	271-6242-1	FLAT WASHER, #6 SST.	2
10	273-0002-1	FILAMENT, 5-1/2 TURN	1
11	273-0004-2	BEAM FORMER	1
12	273-0005-1	INSULATOR, CROSS	1
13	273-0006-1	INSULATOR, COLLAR	2
14	273-0008-1	L INSULATOR	1
15	273-0010-1	HV INSULATOR	2
16	273-0031-2	CATHODE BLOCK, LEFT	1
17	273-0032-1	CATHODE BLOCK, LEFT	1
18	273-0033-3	FILAMENT CLAMP, LEFT	1
19	273-0033-4	FILAMENT CLAMP, RIGHT	1
20	568-3122-1	EMITTER BUS BAR, RIGHT	1
21	568-3122-2	EMITTER BUS BAR, LEFT	1

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NEXT ASSY	USED ON
APPLICATION	

ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	QTY REQD
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION AND TOLERANCE PER ASME Y14.5M 1994		DRAWN BY: D. LY	DATE: 12/14/04	<div>TELEMARX</div> <div>telemarx.com</div> <div>EMITTER ASSEMBLY, 568</div>
DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .X ± .03 ANGLES ±1° .XX ± .01 .XXX ± .005		CHECKED BY:	DATE:	
THIRD ANGLE PROJECTION		ENG:	DATE:	
		MATERIAL:		
		FINISH:	SEE NOTES	SIZE DWG. NO. 213-0150-4 REV. B
		DO NOT SCALE DRAWING		
		SCALE 1:1		SHEET 1 OF 1





REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	9/10/10	

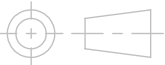
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	213-0003-3	ANODE	1
2	213-0017-3	MOUNTING BRACKET	1
3	213-0018-3	SUPPORT BRACKET	1
4	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD,TI	2
5	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
6	271-6020-6	VENTED SCREW, #6-32 X 3/16 SST SHCS, SILVER	2
7	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	6
8	271-6060-6	SCREW, #6-32 X 1/2" SST SHCS, SILVER	2
9	271-6242-1	FLAT WASHER, #6 SST.	2
10	273-0002-1	FILAMENT, 5-1/2 TURN	1
11	273-0004-2	BEAM FORMER	1
12	273-0005-1	INSULATOR, CROSS	1
13	273-0006-1	INSULATOR, COLLAR	2
14	273-0008-1	L INSULATOR	1
15	273-0010-1	HV INSULATOR	2
16	273-0031-2	CATHODE BLOCK, LEFT	1
17	273-0032-1	CATHODE BLOCK, LEFT	1
18	273-0033-3	FILAMENT CLAMP, LEFT	1
19	273-0033-4	FILAMENT CLAMP, RIGHT	1
20	568-3122-7	EMITTER BUS BAR, LEFT, REVERSED	1
21	568-3122-8	EMITTER BUS BAR, RIGHT, REVERSED	1

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED  
DIMENSION AND TOLERANCE  
PER ASME Y14.5M 1994  
  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
DECIMALS .X ± .03 ANGLES ±1°  
.XX ± .01  
.XXX ± .005

THIRD ANGLE PROJECTION



DRAWN BY: D. LY	DATE: 9/10/2010
CHECKED BY:	DATE:
ENG:	DATE:
MATERIAL:	
FINISH: SEE NOTES	
DO NOT SCALE DRAWING	



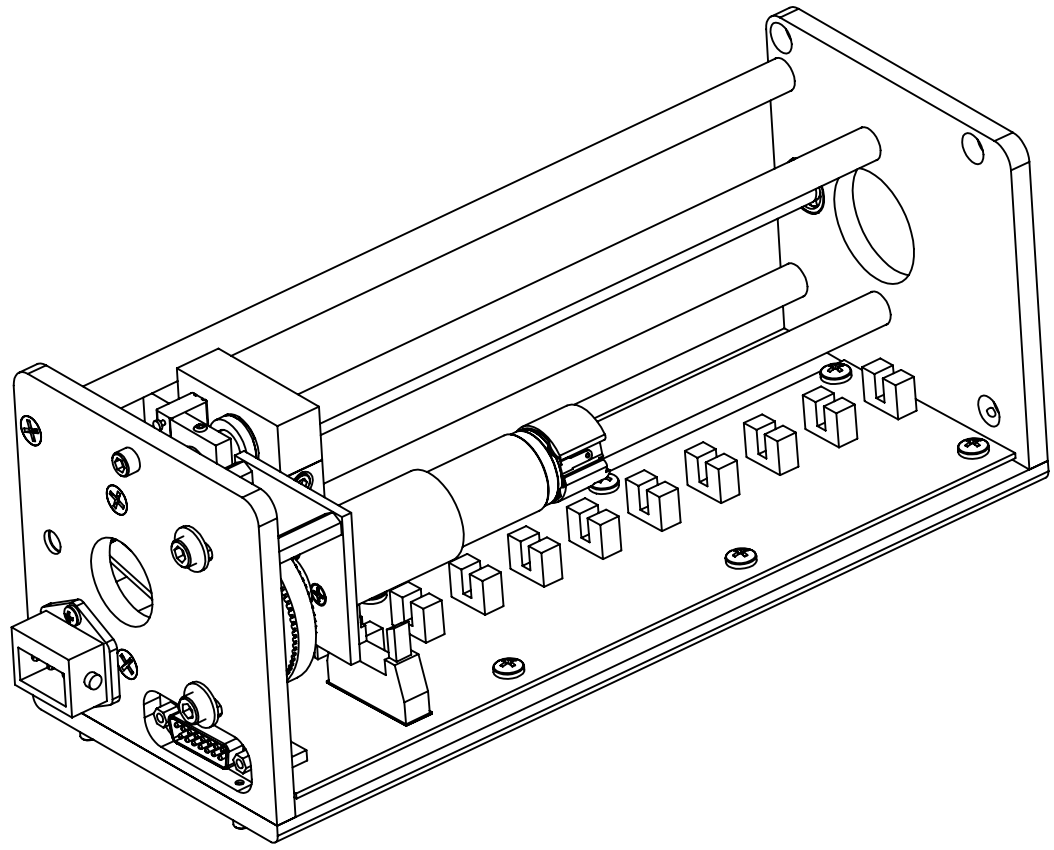
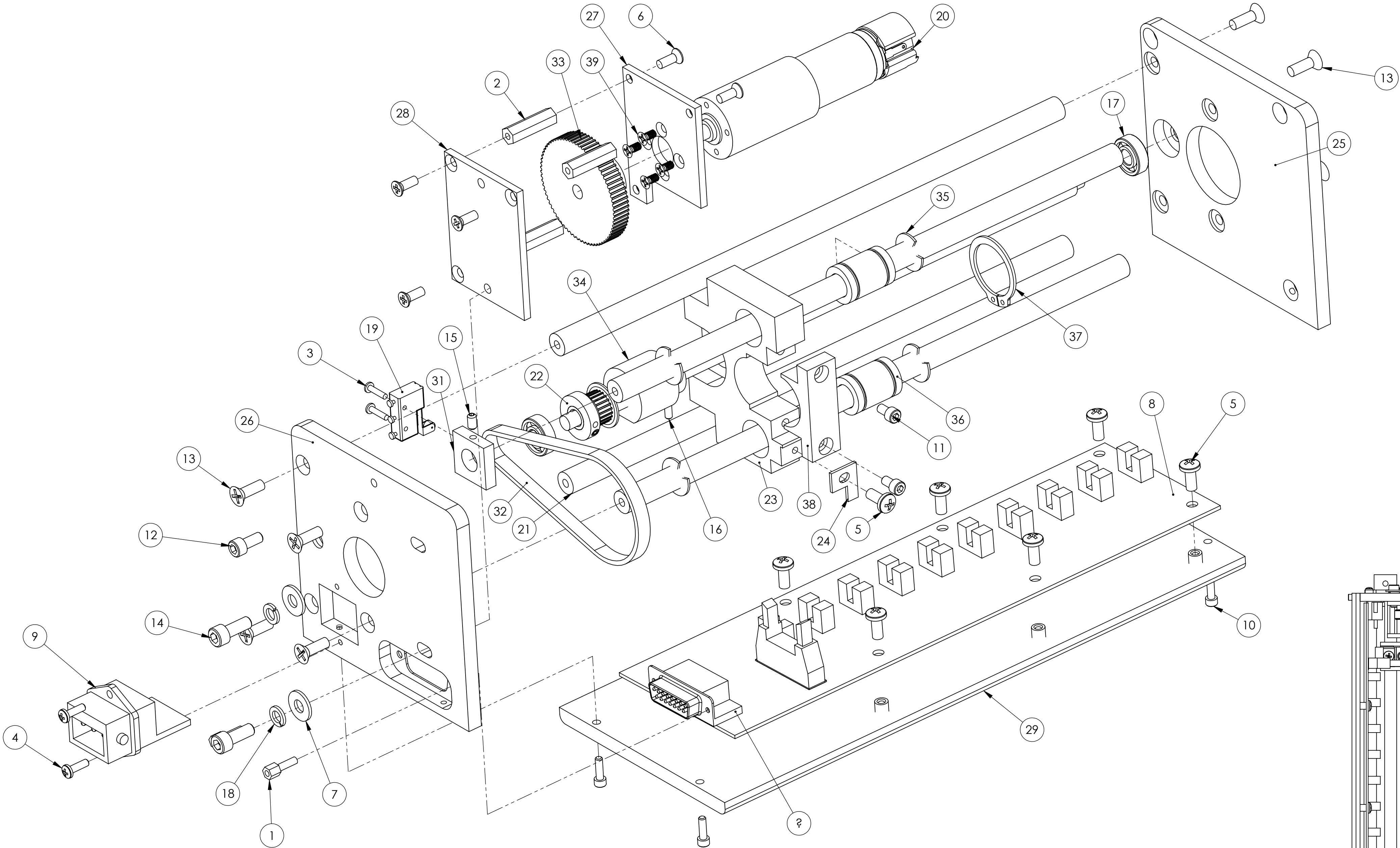
EMITTER ASSEMBLY, 568R

SIZE B	DWG. NO. 213-0150-5	REV. A
SCALE 1:1	SHEET 1 OF 1	

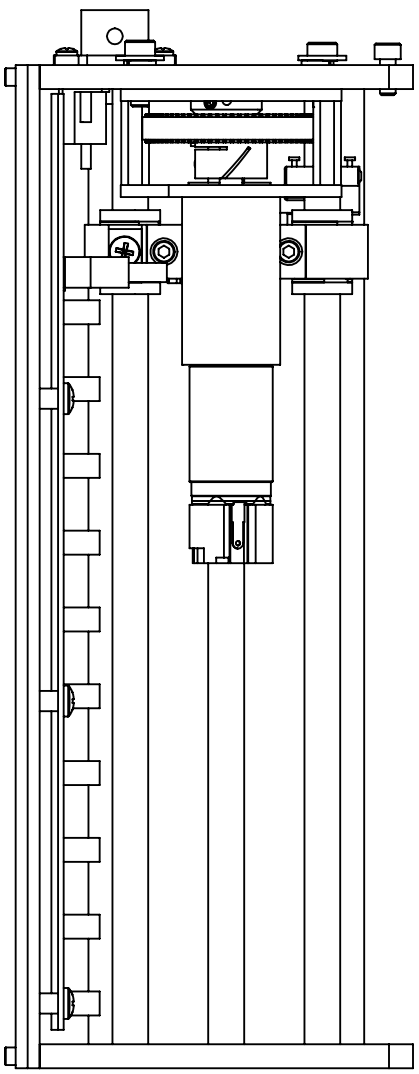
1  
2  
3  
4  
5


A B C D E F G H I

ECN	ZONE	REV	DESCRIPTION	BY	DATE
990712		A	RELEASE	PWF	3/4/2014
		B	UPDATE	PWF	8/2/2016



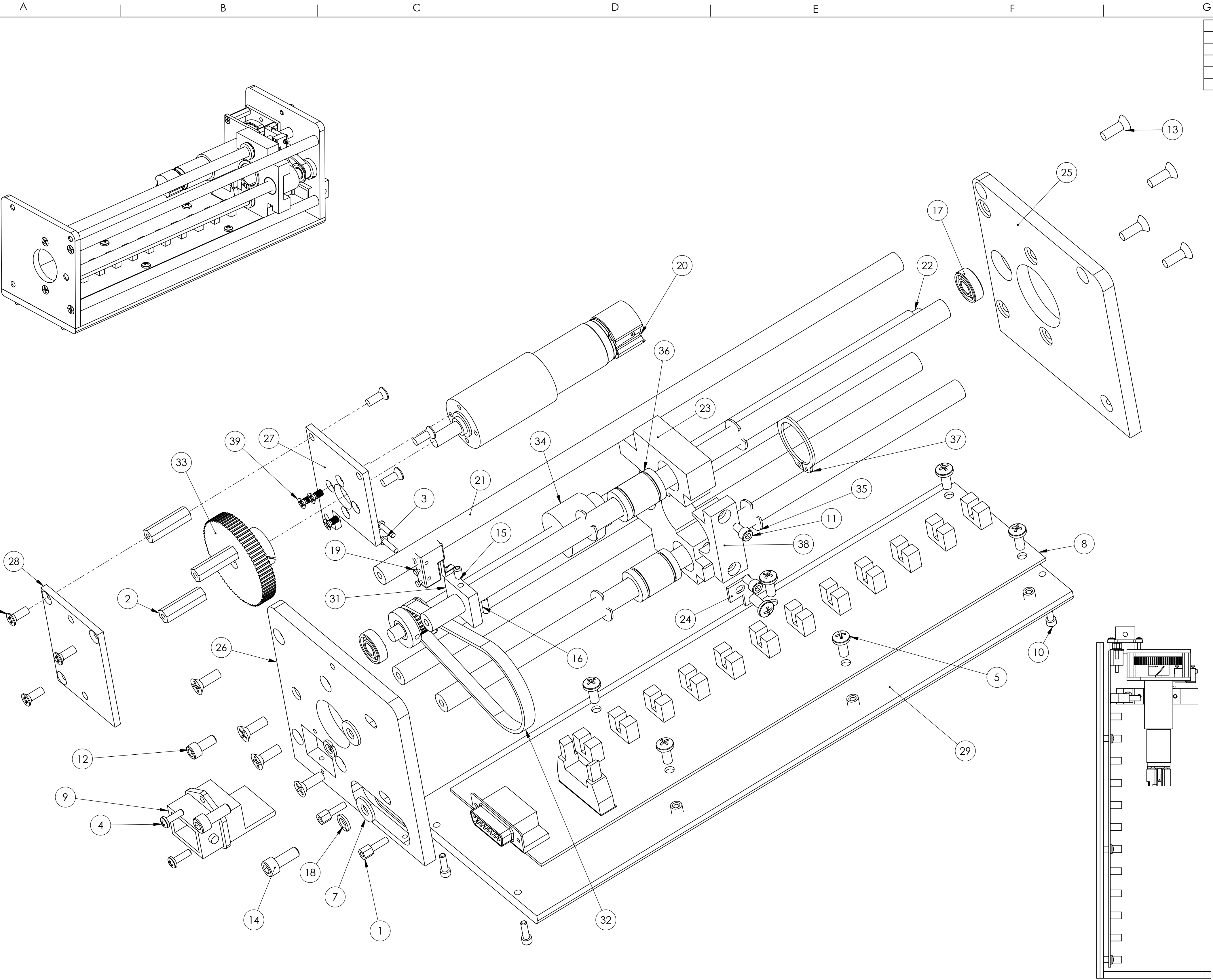
ITEM NO.	PART NUMBER	DESCRIPTION	last step/QTY.
1	110-0119-3	JACKSCREW, 4-40 X 1/4, ST, NI	2
2	110-3270-2	STANDOFF, #6-32X7/8, AL, HEX, F-F	3
3	110-4201-1	SCREW, #2-56X3/8, STEEL/ALLOY, FLAT, PHILLIPS	2
4	110-4404-1	SCREW, #4-40 X 3/8, STEEL/ZINC, PAN, PHILLIPS	2
5	110-4612-1	SCREW, #6-32 X 3/8, STEEL/ZINC, PAN, PHILLIPS, LOCK.	7
6	110-4613-1	SCREW, #6-32 X 3/8, STEEL/ZINC, FLAT, PHILIPS	6
7	110-7301-1	#10 FLAT WASHER, STEEL	2
8	120-0603-3	ASSEMBLY, PCB, MOTOR INTERFACE	1
9	124-1503-1	CHAS, HIRSCHMANN FEMALE, 3-PIN+G	1
10	271-6000-9	SCREW, #4-40 X 3/8" SST SHCS	4
11	271-6030-9	SCREW, #6-32 UNC X 1/4" SST, SHCS	2
12	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	1
13	271-6134-9	#8-32 X 1/2 PHIL FLAT HEAD	8
14	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	2
15	271-6198-1	SET SCREW, #6-32 X 1/4" SST	1
16	271-6201-1	#4-40 X 3/8 SET SCREW	1
17	271-6219-1	BALL BEARING, 5/8 OD.	2
18	271-6245-2	LOCK WASHER, #10 SST.	2
19	376-9004-2	MICROSWITCH	1
20	396-0400-1	MOTOR, STANDARD, 396	1
21	397-1401-1	SUPPORT ROD	4
22	397-1402-2	BALL SCREW ASSEMBLY	1
23	397-1410-1	DRIVE BLOCK	1
24	397-1415-1	FLAG	1
25	397-1420-1	DRIVE ASSY. BOTTOM PLATE	1
26	397-1425-1	DRIVE ASSY. TOP PLATE	1
27	397-1435-1	MOTOR PLATE	1
28	397-1435-2	MOTOR PLATE 2	1
29	397-1450-1	OPTIC SENSOR PLATE, STD	1
30	397-1465-1	COVER, DRIVE ASSEMBLY	1
31	397-1470-1	MICROSWITCH CLAMP	1
32	397-1475-1	DRIVE BELT	1
33	397-1476-1	BELT PULLY, 72 TEETH	1
34	568-1403-1	RIGHT HAND BALL NUT	1
35	568-1405-1	RETAINER RING, 5/8"	4
36	568-1406-1	BALL BEARING, LINEAR	2
37	568-1411-2	RETAINING RING, 24mm	1
38	568-1412-1	DRIVE BLOCK, CLAMP	1
39	900-3010-601	SCREW, FLAT HD PHILLIPS, M3 x 6mm LG, SST	4



UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	D.LY DATE DATE DATE	MATERIAL: B.O.M	 telemark.com	
X .INCHES [mm] +/- .03 [0.762] XX +/- .001 [0.0254] XXX +/- .0005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING FILE NUMBER INITIAL PROJECT		FINISH: SEE NOTES THIRD ANGLE PROJECTION		
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D		DWG NO. 397-1600-1		REV B		



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ECN	ZONE	REV	DESCRIPTION	BY	DATE
990712		A	RELEASE	PWF	8/3/2016
		B	UPDATE	PWF	

ITEM NO.	PART NUMBER	DESCRIPTION	last step/QTY.
1	110-0119-3	JACKSCREW, 4-40 X 1/4, ST, NI	2
2	110-3270-2	STANDOFF, #6-32X7/8, AL, HEX, F-F	3
3	110-4201-1	SCREW, #2-56X3/8, STEEL/ALLOY, FLAT, PHILLIPS	2
4	110-4404-1	SCREW, #4-40 X 3/8, STEEL/ZINC, PAN, PHILLIPS	2
5	110-4612-1	SCREW, #6-32 X 3/8, STEEL/ZINC, PAN, PHILLIPS, LOCK.	7
6	110-4613-1	SCREW, #6-32 X 3/8, STEEL/ZINC, FLAT, PHILIPS	6
7	110-7301-1	#10 FLAT WASHER, STEEL	2
8	120-0603-4	ASSEMBLY, PCB, MOTOR INTERFACE	1
9	124-1505-1	CHAS, HIRSCHMANN MALE, 5-PIN+G	1
10	271-6000-9	SCREW, #4-40 X 3/8" SST SHCS	4
11	271-6030-9	SCREW, #6-32 UNC X 1/4" SST, SHCS	2
12	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	1
13	271-6134-9	#8-32 X 1/2 PHIL FLAT HEAD	8
14	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	2
15	271-6198-1	SET SCREW, #6-32 X 1/4" SST	1
16	271-6201-1	#4-40 X 3/8 SET SCREW	1
17	271-6219-1	BALL BEARING, 5/8 OD.	2
18	271-6245-2	LOCK WASHER, #10 SST.	2
19	376-9004-2	MICROSWITCH	1
20	396-0400-1	MOTOR, STANDARD, 396	1
21	397-1401-2	SUPPORT ROD, EX Long	4
22	397-1402-3	BALL SCREW ASSEMBLY, EX LONG	1
23	397-1410-1	DRIVE BLOCK	1
24	397-1415-1	FLAG	1
25	397-1420-1	DRIVE ASSY. BOTTOM PLATE	1
26	397-1425-1	DRIVE ASSY. TOP PLATE	1
27	397-1435-1	MOTOR PLATE	1
28	397-1435-2	MOTOR PLATE 2	1
29	397-1450-2	OPTIC SENSOR PLATE, EX LONG	1
30	397-1465-2	COVER, DRIVE ASSEMBLY, EX LONG	1
31	397-1470-1	MICROSWITCH CLAMP	1
32	397-1475-1	DRIVE BELT	1
33	397-1476-1	BELT PULLEY, 72 TEETH	1
34	568-1403-1	RIGHT HAND BALL NUT	1
35	568-1405-1	RETAINER RING, 5/8"	4
36	568-1406-1	BALL BEARING, LINEAR	2
37	568-1411-2	RETAINING RING, 24mm	1
38	568-1412-1	DRIVE BLOCK, CLAMP	1
39	900-3010-601	SCREW, FLAT HD PHILLIPS, M3 x 6mm LG, SST	4

UNLESS OTHERWISE SPECIFIED:  
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- .001	[0.254]
.XXX	+/- .0005	[0.127]
ANGLES	+/- .5°	
SURF FINISH	63 RMS	

DWG BY: **D. LY**  
CHECK BY:  
PROJ ENG  
MFG ENG

DATE: **3/18/11**  
DATE:  
DATE:

DO NOT SCALE DRAWING

FILE NUMBER: **397-1600-2**  
INITIAL PROJECT:

MATERIAL: **B.O.M.**

FINISH: **SEE NOTES**

THIRD ANGLE PROJECTION

**TELEMARK**  
telemark.com

**LINEAR DRIVE  
EX LONG ASSEMBLY**

SCALE: **1:1**  
SHEET **1** of **1**

DWG NO.: **397-1600-2**

REV: **B**

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