

## ***TELEMARK*** 274 Multi Pocket E-Beam Source Drawings

The current version of this drawing pdf can be found at

<https://telemark.com/electron-beam-sources/multi-pocket-sources/>

Drawing	Rev.	Description	Page
<b>Reference Dimensions</b>			3
R274-0001	A1	Model 274 E-Beam Source Dimensions	4
<b>Model Assemblies</b>			6
274-9901-1	A	Model 274-01 E-Beam Source, 4 pocket, 15cc, Side Drive	7
274-9902-1	A	Model 274-02 E-Beam Source, 4 pocket, 15cc, Bottom Drive	8
274-9905-1	A	Model 274-05 E-Beam Source, 6 pocket, 7cc, Side Drive	9
274-9906-1	A	Model 274-06 E-Beam Source, 6 pocket, 7cc, Bottom Drive	10
274-9907-1	A	Model 274-07 E-Beam Source, 4 pocket, 25cc, Side Drive	11
274-9908-1	A	Model 274-08 E-Beam Source, 4 pocket, 25cc, Bottom Drive	12
274-9911-1	A	Model 274-11 E-Beam Source, 6 pocket, 15cc, Side Drive	13
274-9912-1	A	Model 274-12 E-Beam Source, 6 pocket, 15cc, Bottom Drive	14
274-9913-1	A	Model 274-13 E-Beam Source, 8 pocket, 7cc, Side Drive	15
274-9914-1	A	Model 274-14 E-Beam Source, 8 pocket, 7cc, Bottom Drive	16
274-9917-1	A	Model 274-17 E-Beam Source, 6 pocket, 25cc, Side Drive	17
274-9918-1	A	Model 274-18 E-Beam Source, 6 pocket, 25cc, Bottom Drive	18
274-9919-1	A	Model 274-19 E-Beam Source, 4 pocket, 30cc, Side Drive	19
274-9920-1	A	Model 274-20 E-Beam Source, 4 pocket, 30cc, Bottom Drive	20
274-9923-1	A	Model 274-23 E-Beam Source, Pan, 290cc, Side Drive	21
274-9924-1	A	Model 274-24 E-Beam Source, Pan, 290cc, Bottom Drive	22
274-9927-1	A	Model 274-27 E-Beam Source, 4 pocket, 7cc, Side Drive	23
274-9928-1	A	Model 274-28 E-Beam Source, 4 pocket, 7cc, Bottom Drive	24
274-9931-1	A	Model 274-31 E-Beam Source, Trough, 275cc, Side Drive	25
274-9932-1	A	Model 274-32 E-Beam Source, Trough, 275cc, Bottom Drive	26
274-9961-1	A	Model 274-61 E-Beam Source, 4 pocket, 40cc, Side Drive	27
274-9962-1	A	Model 274-62 E-Beam Source, 4 pocket, 40cc, Bottom Drive	28
<b>Common Assemblies</b>			29
274-0150-1	F	Emitter Assembly (note: for Serial numbers before T13087 use 273-0150-8)	30
274-0113-1	B	Crucible Rotation Assembly, Side Drive	31
274-0115-1	A	Crucible Rotation Assembly, Bottom Drive	32
274-0125-1	B	Side Drive Assembly	33
274-0133-1	D	E-Beam Source Sub Assembly, Side Drive	34
		(note: for Serial numbers before T13087 use Revision B)	
274-0135-1	D	E-Beam Source Sub Assembly, Bottom Drive	35
		(note: for Serial numbers before T13087 use Revision B)	
291-0127-1	B	Bottom Drive Assembly	36
<b>Option - Self Sealing Cover</b>			37
274-9901-1SSC	A1	Model 274-01 E-Beam Source SSC, 4 pocket, 15cc, Side Drive	38
274-9902-1SSC	A1	Model 274-02 E-Beam Source SSC, 4 pocket, 15cc, Bottom Drive	39
274-9905-1SSC	A	Model 274-05 E-Beam Source SSC, 6 pocket, 7cc, Side Drive	40
274-9906-1SSC	A	Model 274-06 E-Beam Source SSC, 6 pocket, 7cc, Bottom Drive	41
274-9907-1SSC	A1	Model 274-07 E-Beam Source SSC, 4 pocket, 25cc, Side Drive	42
274-9908-1SSC	A1	Model 274-08 E-Beam Source SSC, 4 pocket, 25cc, Bottom Drive	43
274-9911-1SSC	A	Model 274-11 E-Beam Source SSC, 6 pocket, 15cc, Side Drive	44
274-9912-1SSC	A	Model 274-12 E-Beam Source SSC, 6 pocket, 15cc, Bottom Drive	45

274-9919-1SSC	A1	Model 274-19 E-Beam Source SSC, 4 pocket, 30cc, Side Drive	46
274-9920-1SSC	A1	Model 274-20 E-Beam Source SSC, 4 pocket, 30cc, Bottom Drive	47
274-9927-1SSC	A	Model 274-27 E-Beam Source SSC, 4 pocket, 7cc, Side Drive	48
274-9928-1SSC	A	Model 274-28 E-Beam Source SSC, 4 pocket, 7cc, Bottom Drive	49
274-9961-1SSC	A	Model 274-61 E-Beam Source SSC, 4 pocket, 40cc, Side Drive	50
274-9962-1SSC	A	Model 274-62 E-Beam Source SSC, 4 pocket, 40cc, Bottom Drive	51
<b>Option - Arc Suppression</b>			52
274-5175-1	B	274 Arc Supression	53
291-3151-3	A	Arc Supression Emitter	54
<b>Option - Indexer In-vacuum In-pocket Switch</b>			55
274-0300-X	E	274-0300-4, 274-0300-6, 274-0300-8, Indexer In-vacuum In-pocket Switch	56
274-0300-1	B	Assembly, Crucible Sensor, std.	57
274-0300-2	B	Assembly, Crucible Sensor, Ceramic	58



# Reference Dimensions

## **E-Beam Source**



A

B

C

D

E

F

G

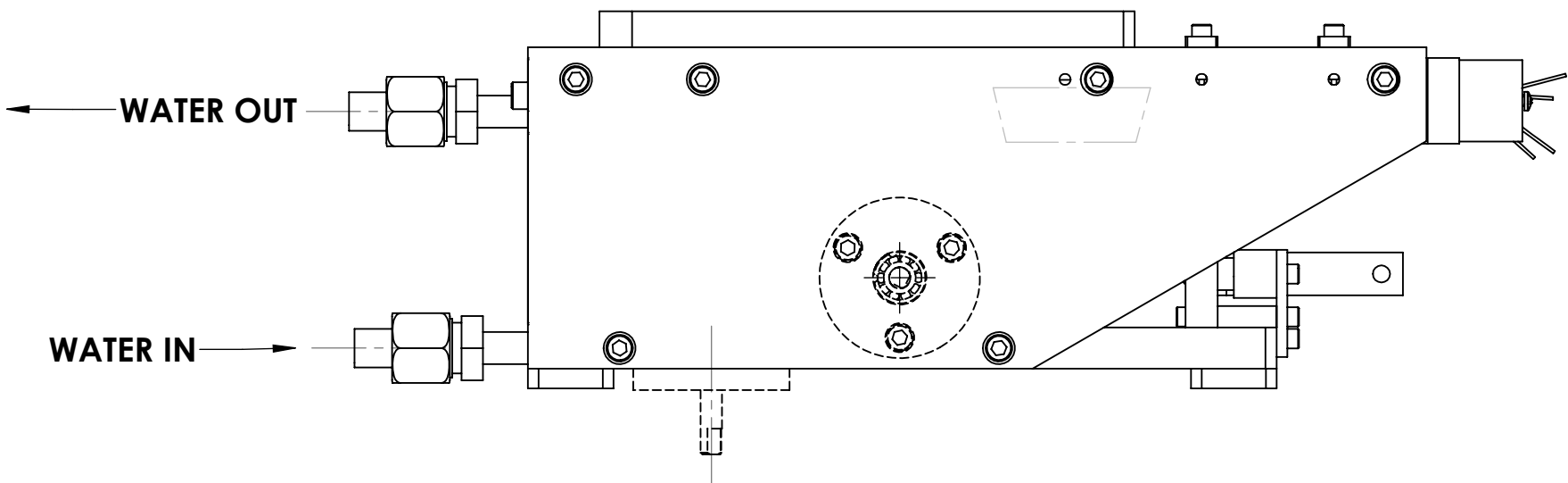
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/11/2010
		A1	UPDATE	PWF	2/2/2011

1

2

MODEL 274  
IMPORTANT WATER LINE CONNECTION INFORMATION

3



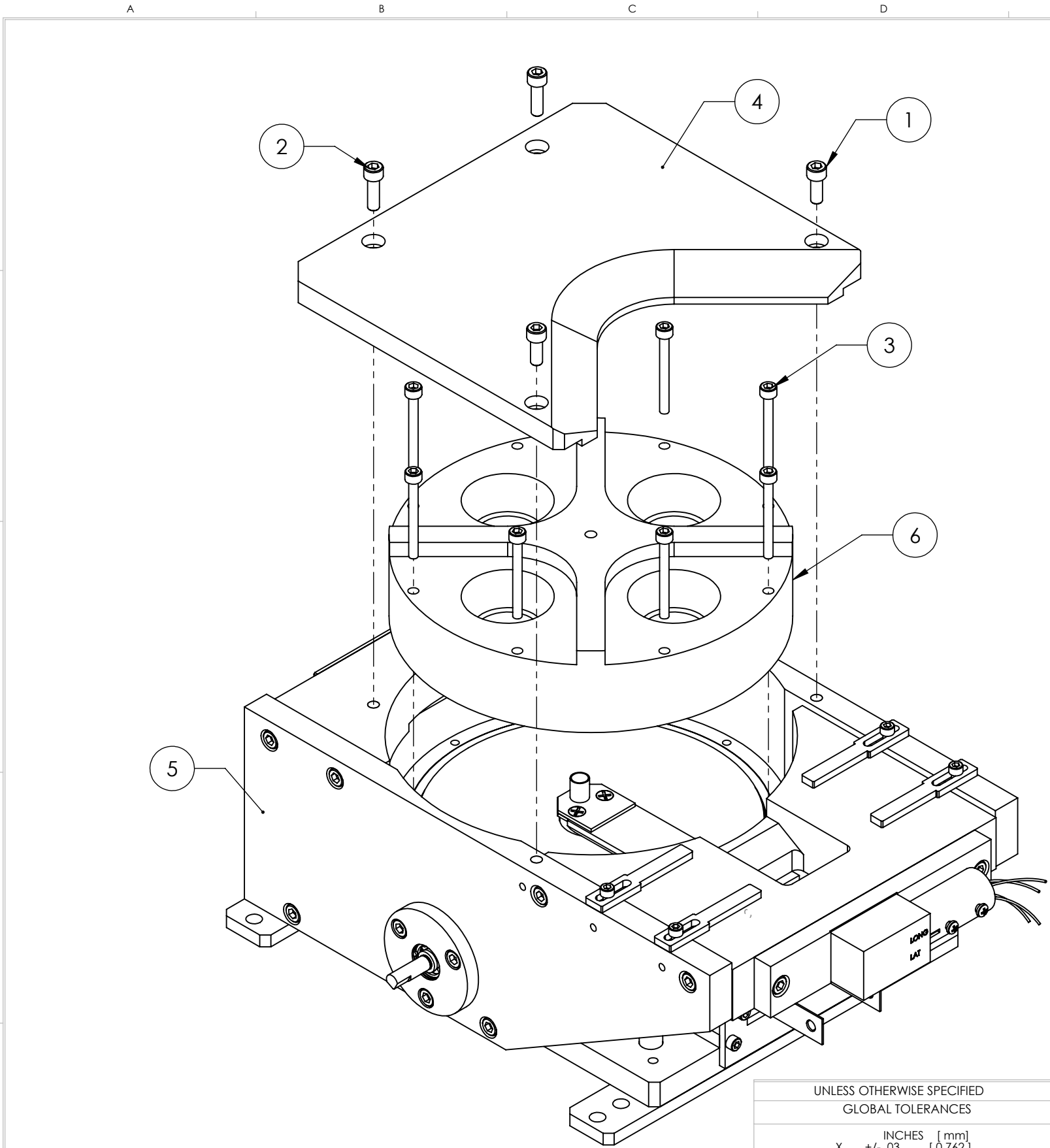
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UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL:	<b>TELEMARK</b> telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING		FINISH:	
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<b>C</b>		SCALE 1:2 SHEET 2 of 2		DWG NO. R274-0001	REV A1

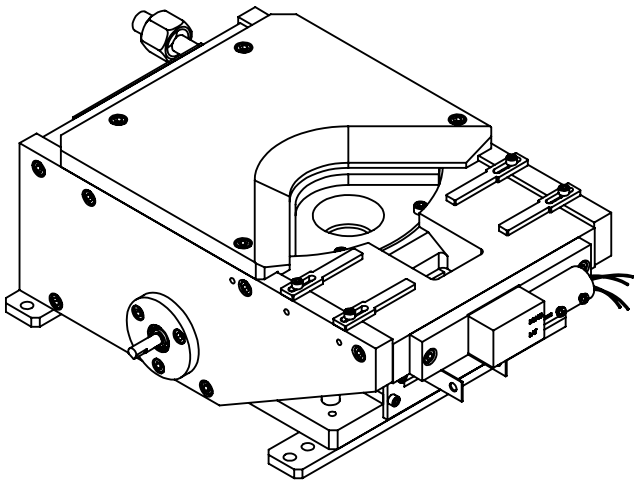


# Model Assemblies

## **E-Beam Sources**



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9901-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0210-1	CRUCIBLE, 4X 15cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
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FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

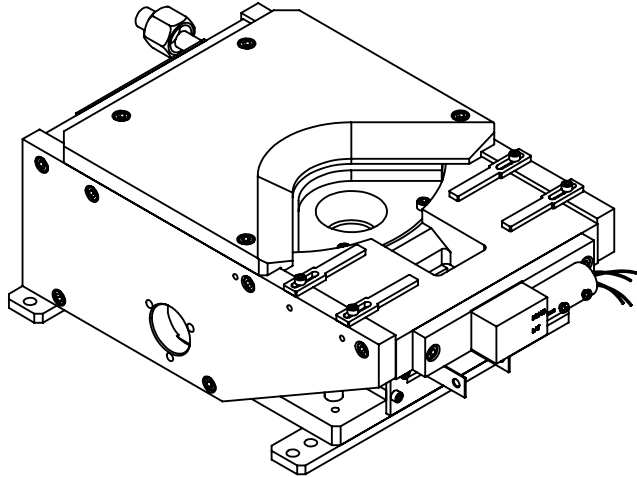
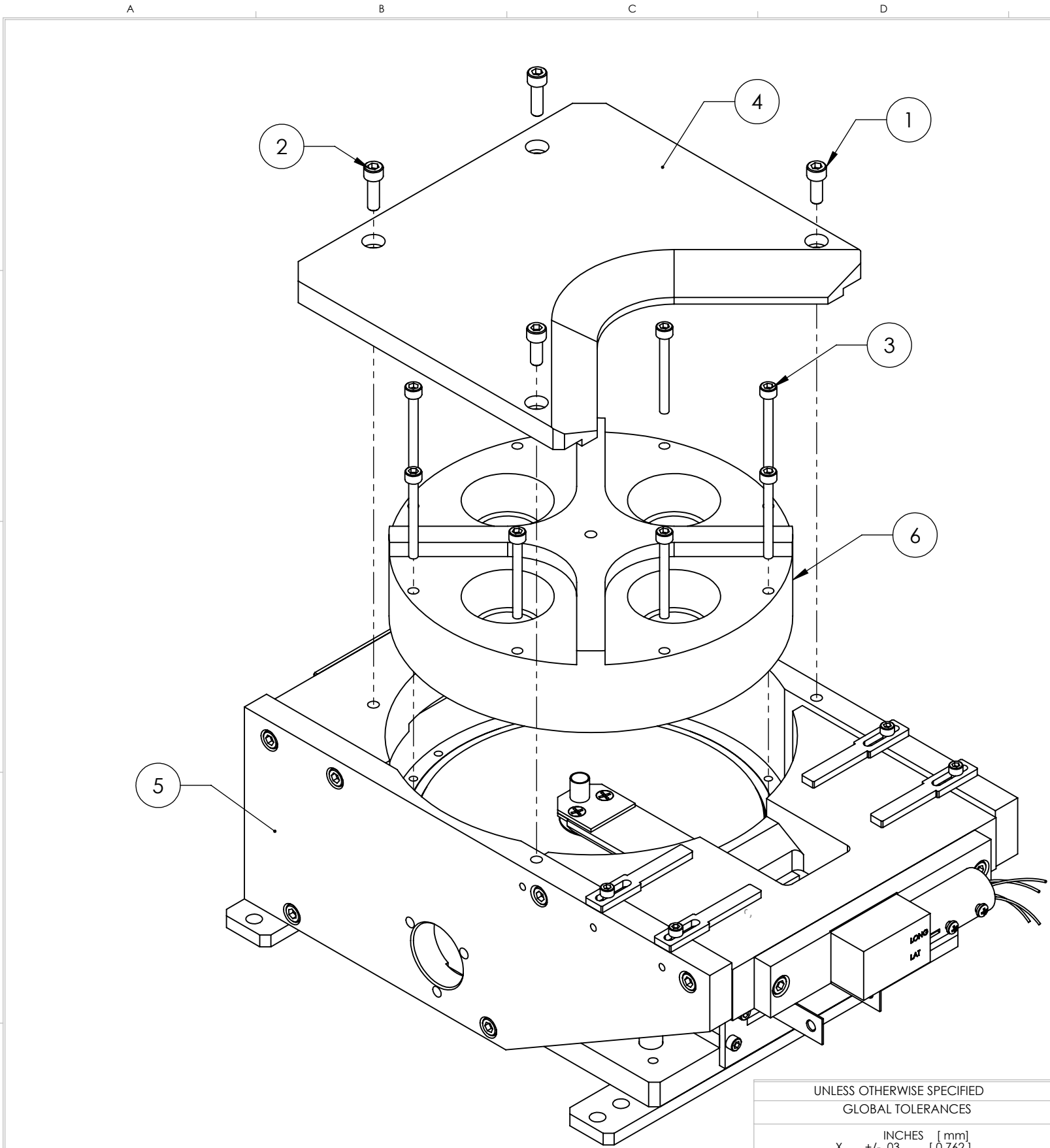
MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

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**MODEL 274-01 EB SOURCE,  
4 PKT, 15CC, S/D**

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<b>B</b>	SCALE	1:2	DWG NO.	<b>274-9901-1</b>	REV <b>A</b>
	SHEET	1 of 1			



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010

ITEM NO.	PART NUMBER	DESCRIPTION	274-9902-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0210-1	CRUCIBLE, 4X 15cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER - 274-99xx-1		
INITIAL PROJECT - 274		

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

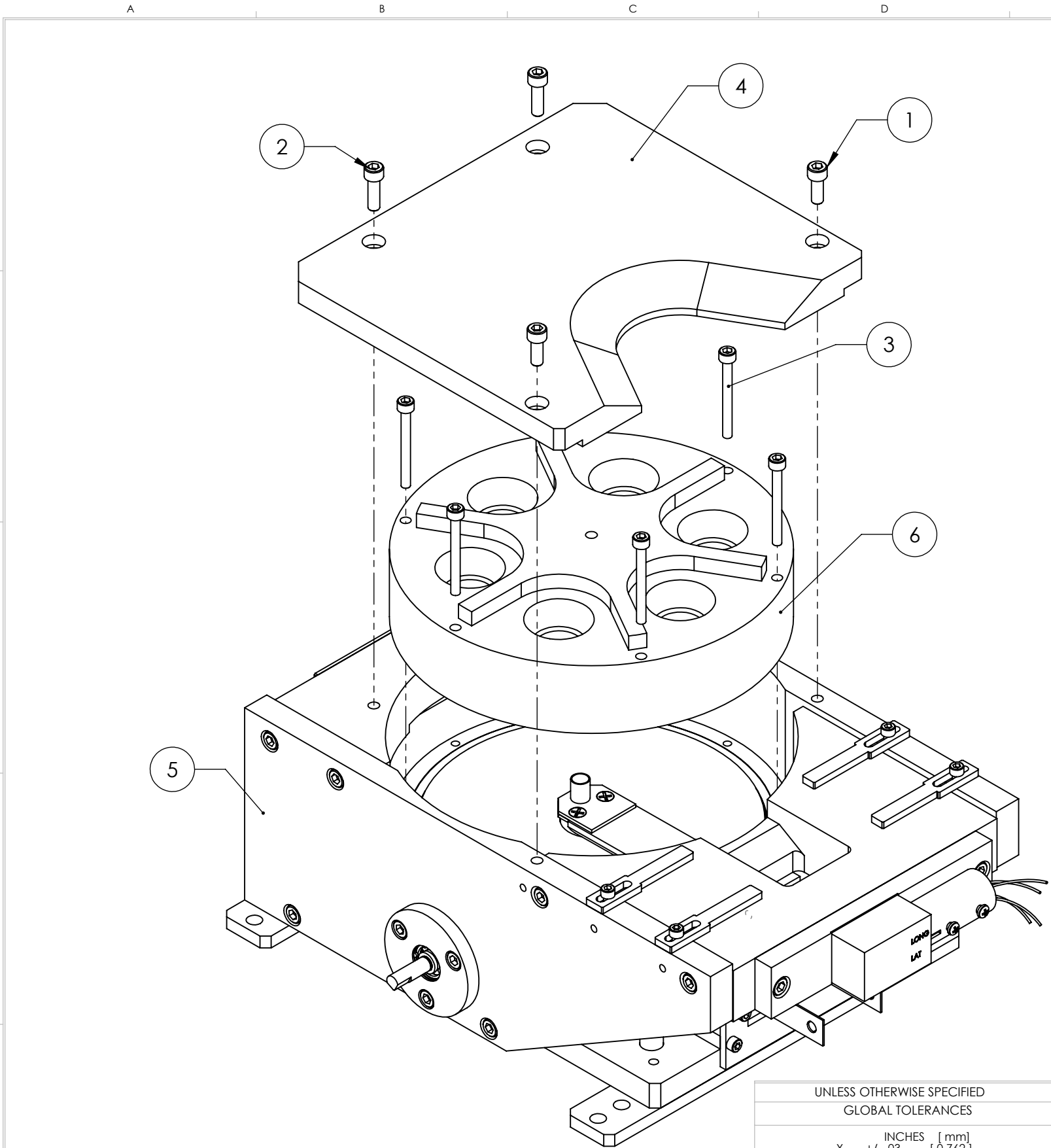
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**MODEL 274-02 EB SOURCE,  
4 PKT, 15CC, B/D**

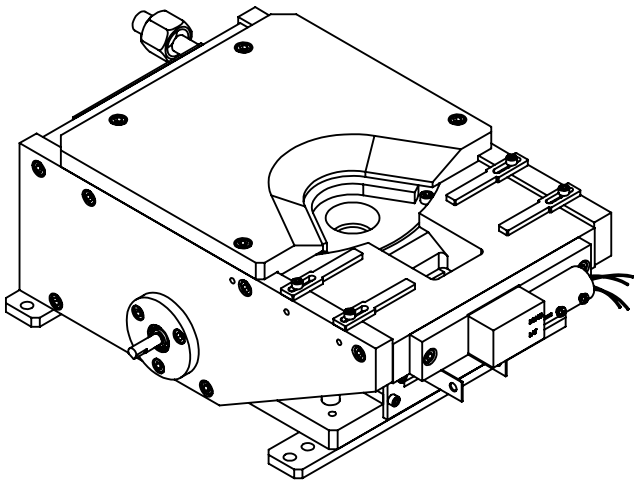
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<b>B</b>	SCALE 1:2	DWG NO.	REV
	SHEET 1 of 1	274-9902-1	A





ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9905-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0245-1	CRUCIBLE, 6X 7cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

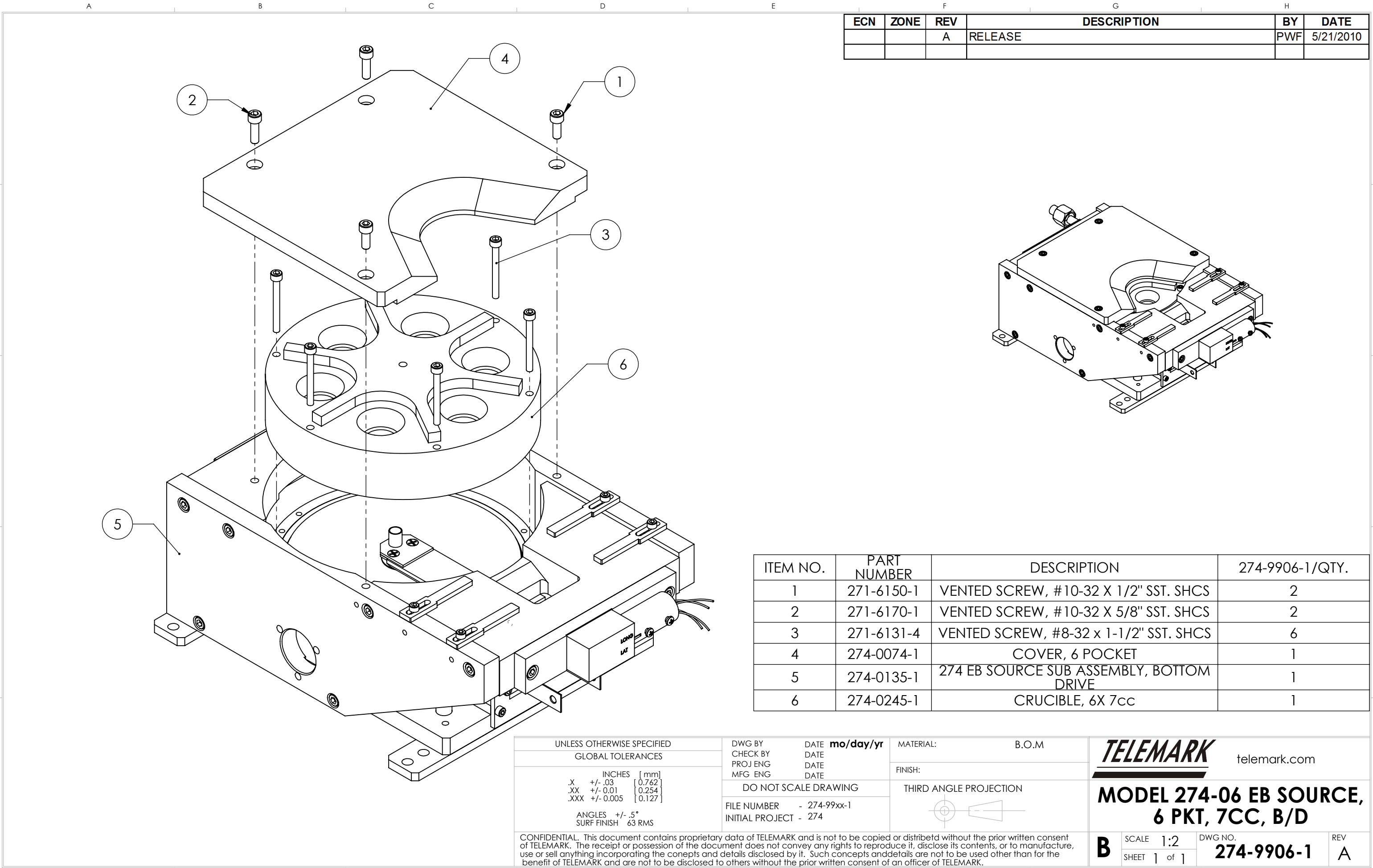
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FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
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THIRD ANGLE PROJECTION	

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<b>MODEL 274-05 EB SOURCE, 6 PKT, 7CC, S/D</b>			

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	SHEET	1 of 1			



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010

ITEM NO.	PART NUMBER	DESCRIPTION	274-9906-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0245-1	CRUCIBLE, 6X 7cc	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE  
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 274-99xx-1  
INITIAL PROJECT - 274

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

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**MODEL 274-06 EB SOURCE,  
6 PKT, 7CC, B/D**

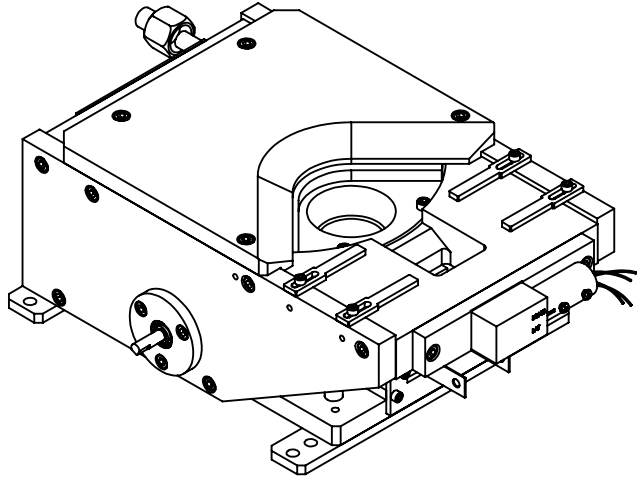
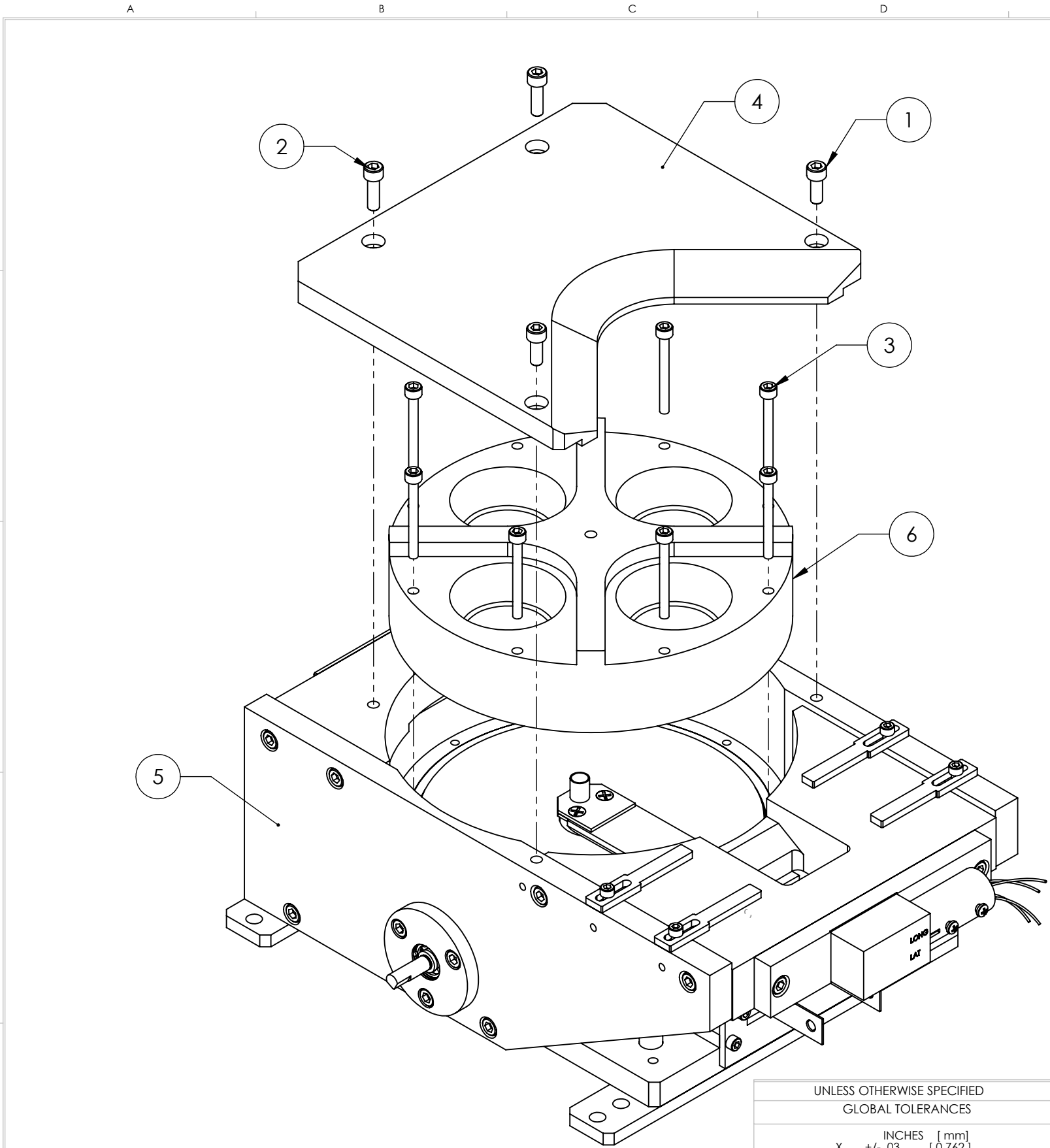
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SCALE 1:2  
SHEET 1 of 1

DWG NO.  
**274-9906-1**

REV  
**A**

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010

ITEM NO.	PART NUMBER	DESCRIPTION	274-9907-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0220-1	CRUCIBLE, 4X 25cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	



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**MODEL 274-07 EB SOURCE,  
4 PKT, 25CC, S/D**

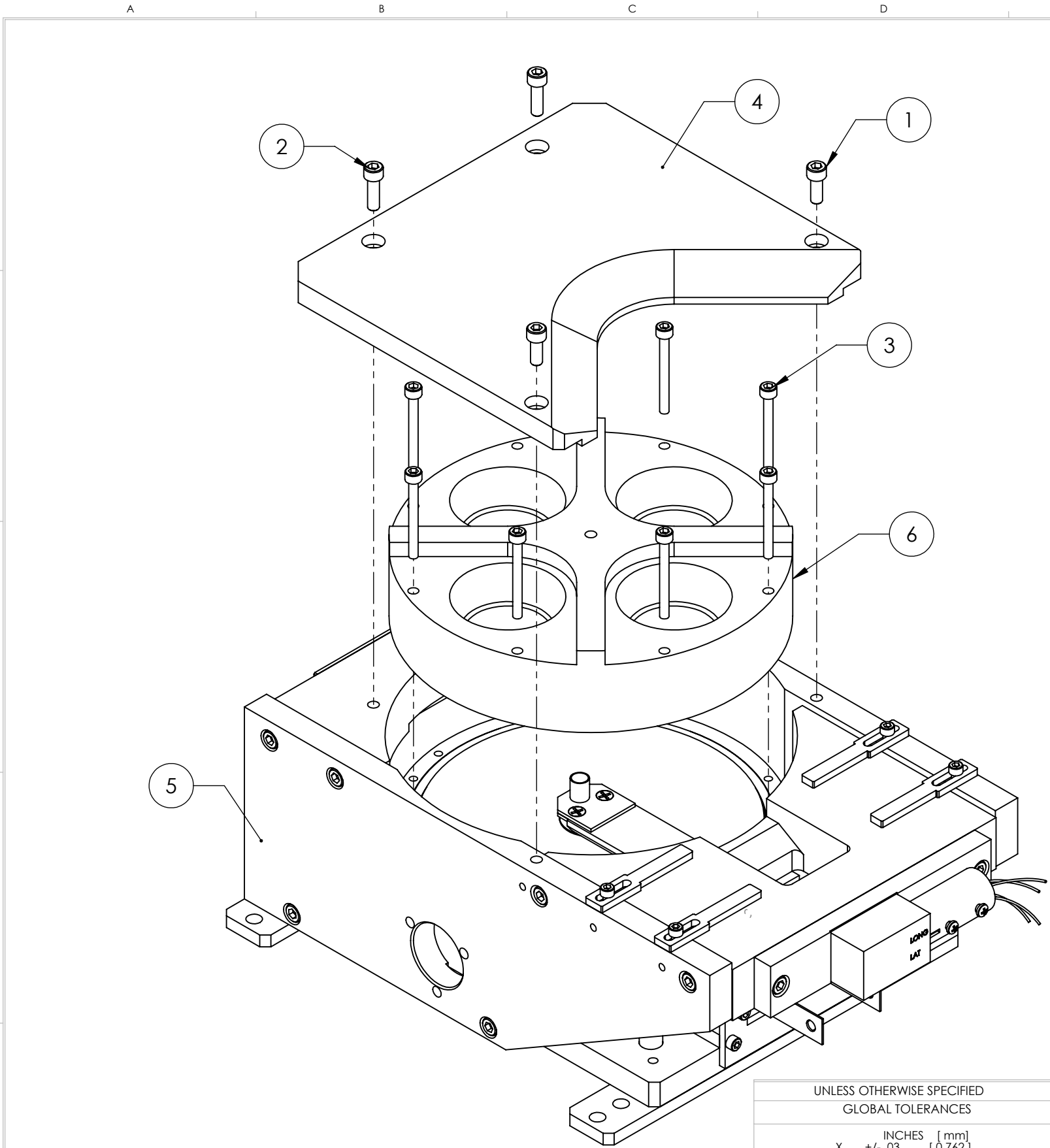
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SCALE 1:2  
SHEET 1 of 1

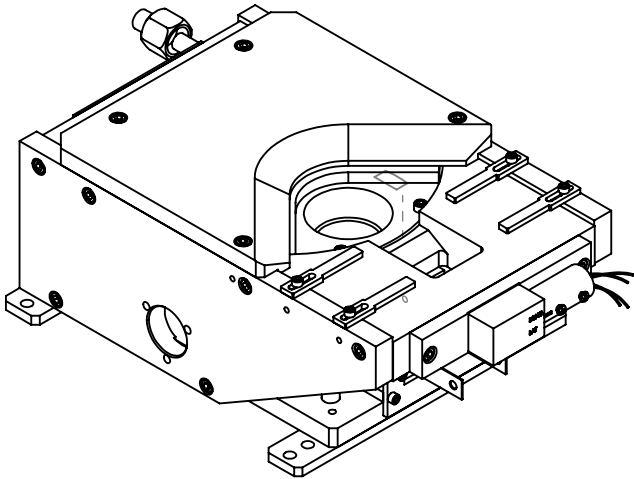
DWG NO.  
**274-9907-1**

REV  
**A**

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9908-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0220-1	CRUCIBLE, 4X 25cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

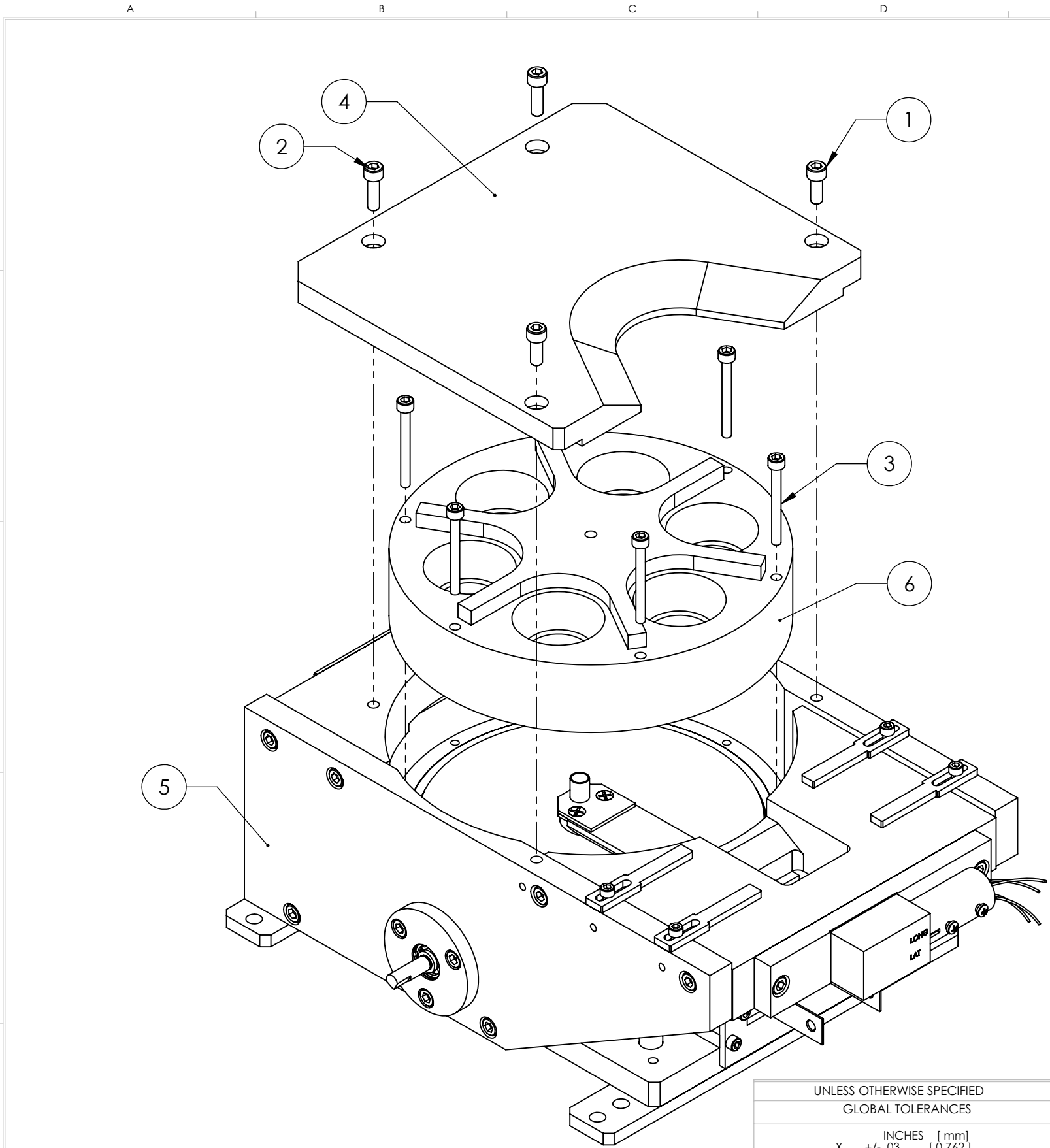
MATERIAL:	B.O.M
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THIRD ANGLE PROJECTION	

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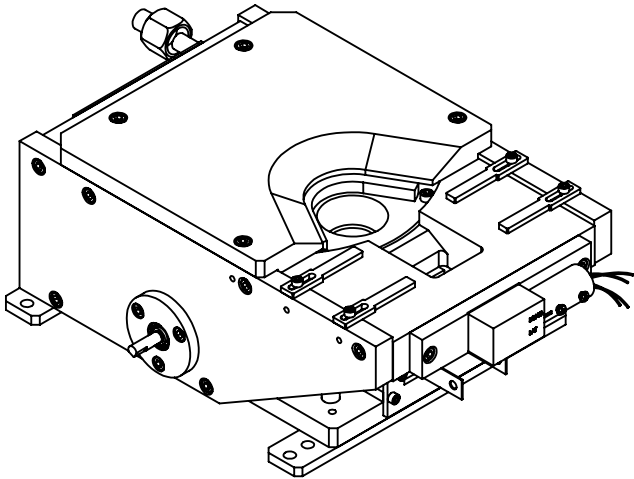
**MODEL 274-08 EB SOURCE,  
4 PKT, 25CC, B/D**

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<b>B</b>	SCALE	1:2	DWG NO.	274-9908-1	REV	A
	SHEET	1 of 1				



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9911-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0255-1	CRUCIBLE, 6X 15cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

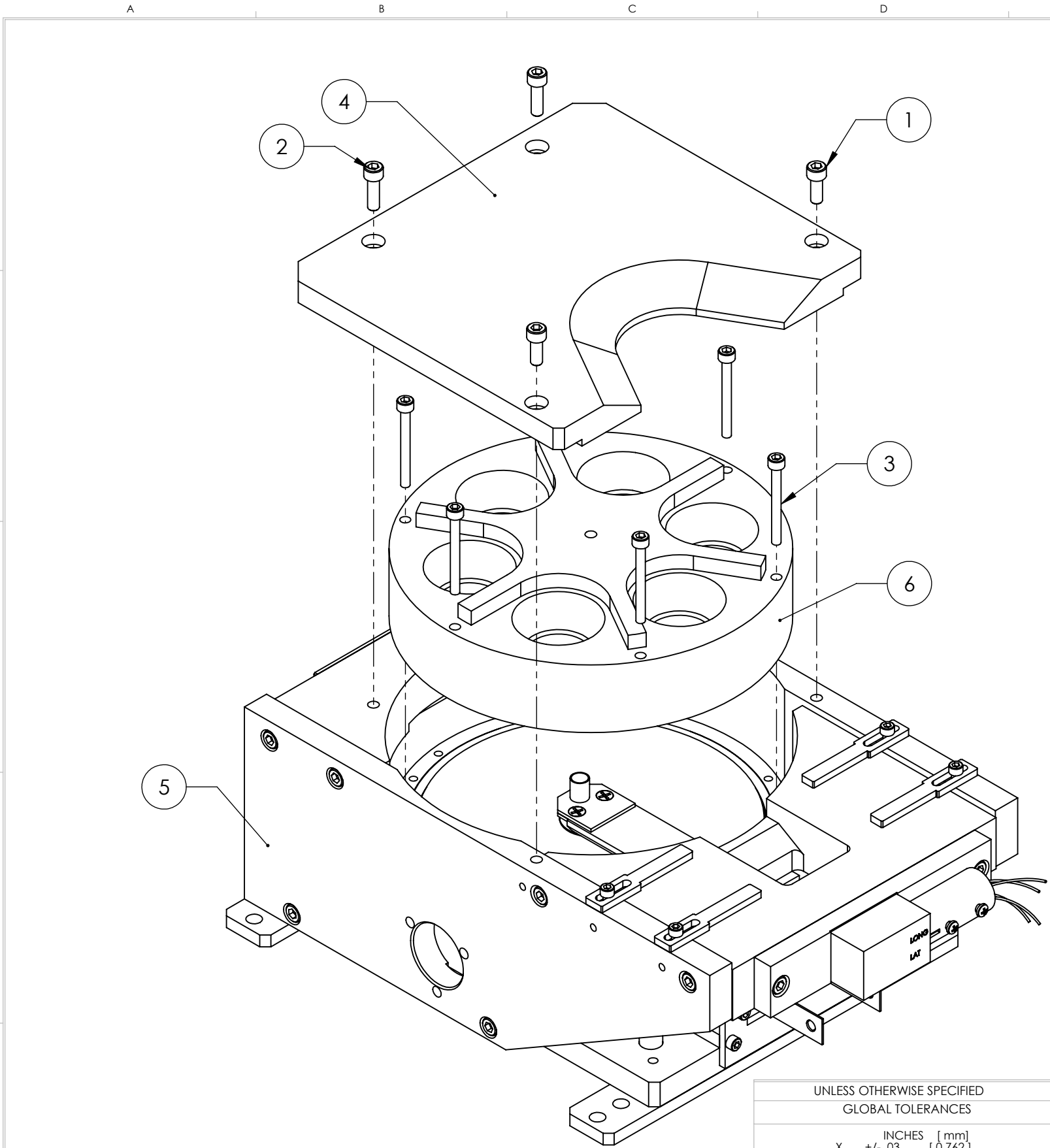
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**MODEL 274-11 EB SOURCE,  
6 PKT, 15CC, S/D**

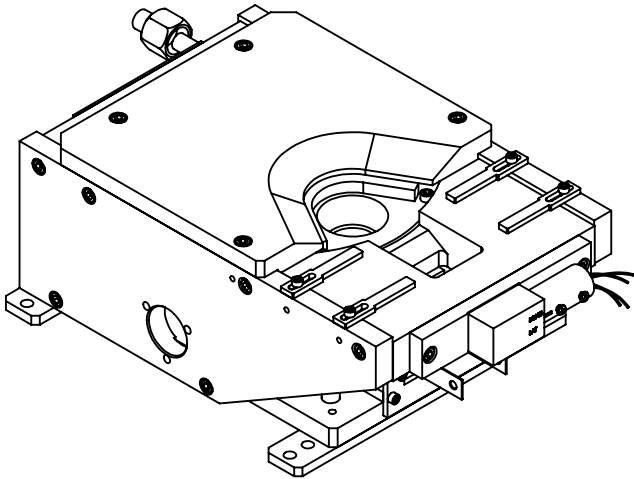
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	SHEET	1 of 1			<b>A</b>

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9912-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0255-1	CRUCIBLE, 6X 15cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

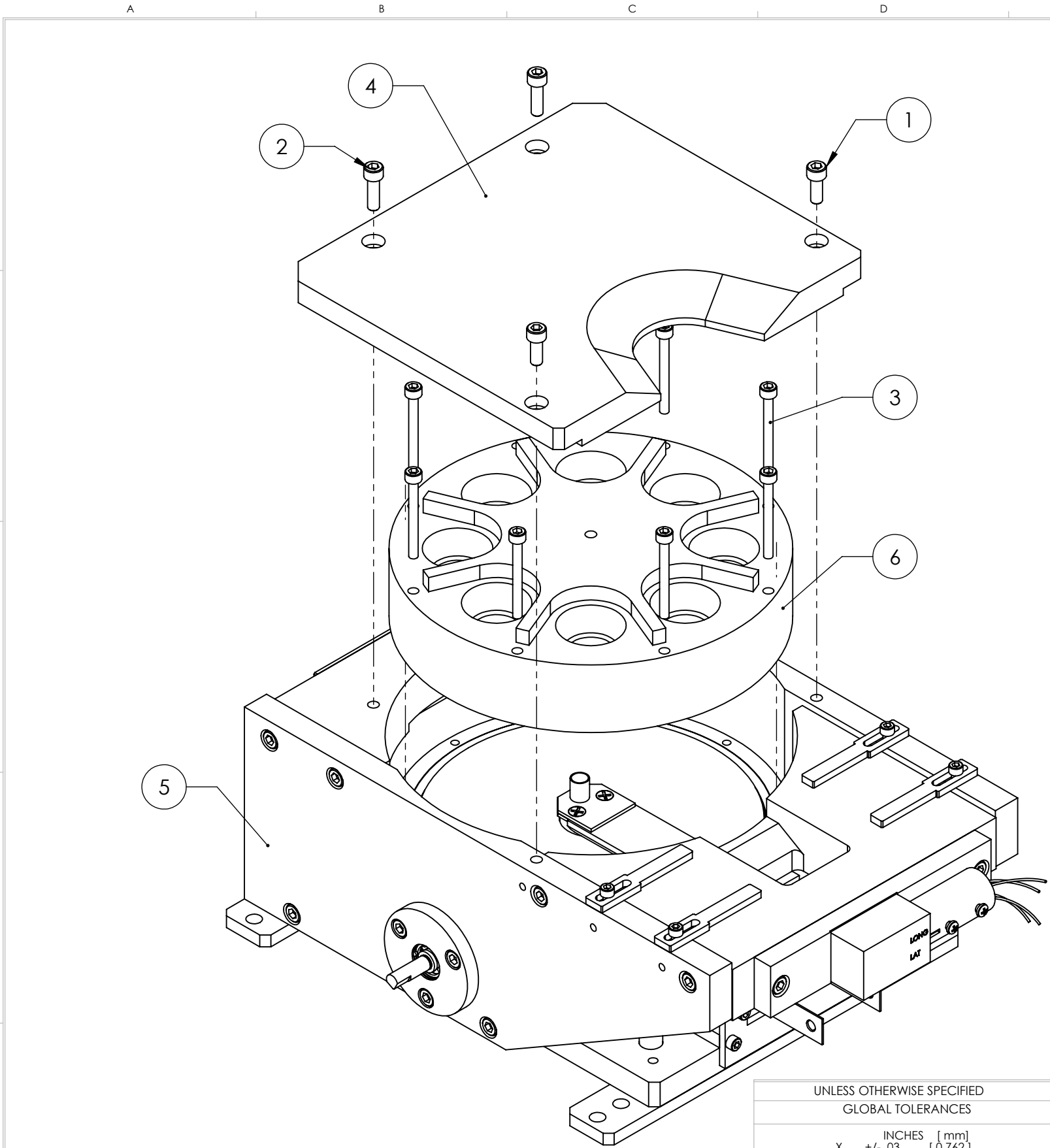
MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

**TELEMARK**  
telemark.com

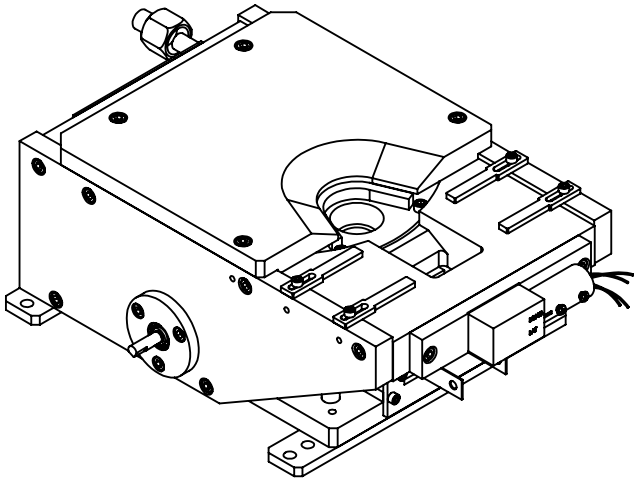
**MODEL 274-12 EB SOURCE,  
6 PKT, 15CC, B/D**

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<b>B</b>	SCALE	1:2	DWG NO.	<b>274-9912-1</b>	REV
	SHEET	1 of 1			<b>A</b>



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9913-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0075-1	COVER, 8 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0260-1	CRUCIBLE, 8X 7cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

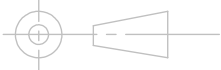
DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	

DO NOT SCALE DRAWING	
FILE NUMBER	- 274-99xx-1
INITIAL PROJECT	- 274

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

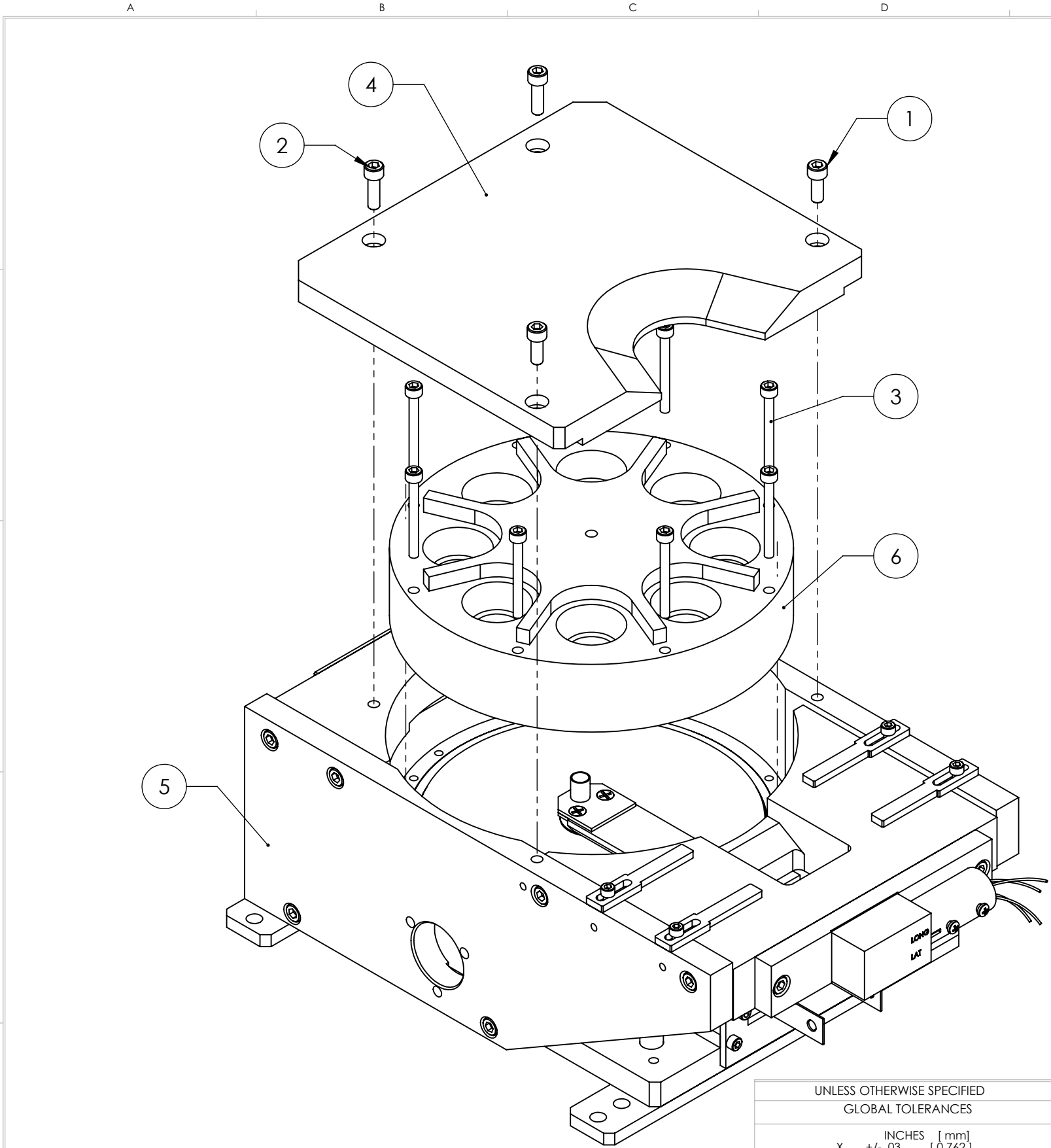


**TELEMARK** [telemark.com](http://telemark.com)

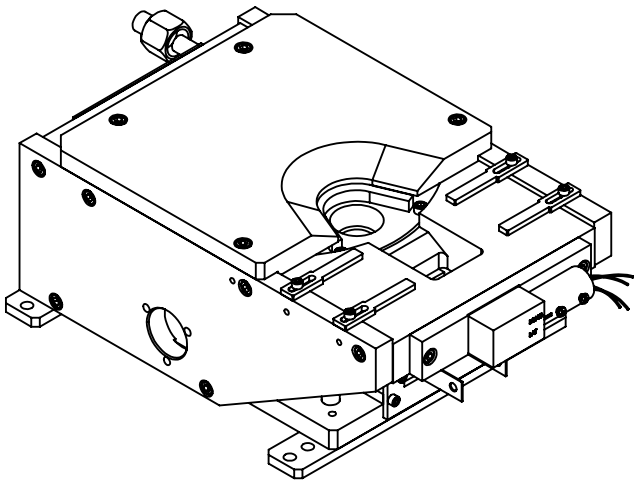
**MODEL 274-13 EB SOURCE,  
8 PKT, 7CC, S/D**

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<b>B</b>	SCALE	1:2	DWG NO.	REV
	SHEET	1 of 1	274-9913-1	A



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9914-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0075-1	COVER, 8 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0260-1	CRUCIBLE, 8X 7cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

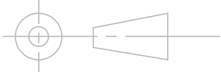
DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	

DO NOT SCALE DRAWING	
FILE NUMBER - 274-99xx-1	
INITIAL PROJECT - 274	

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION



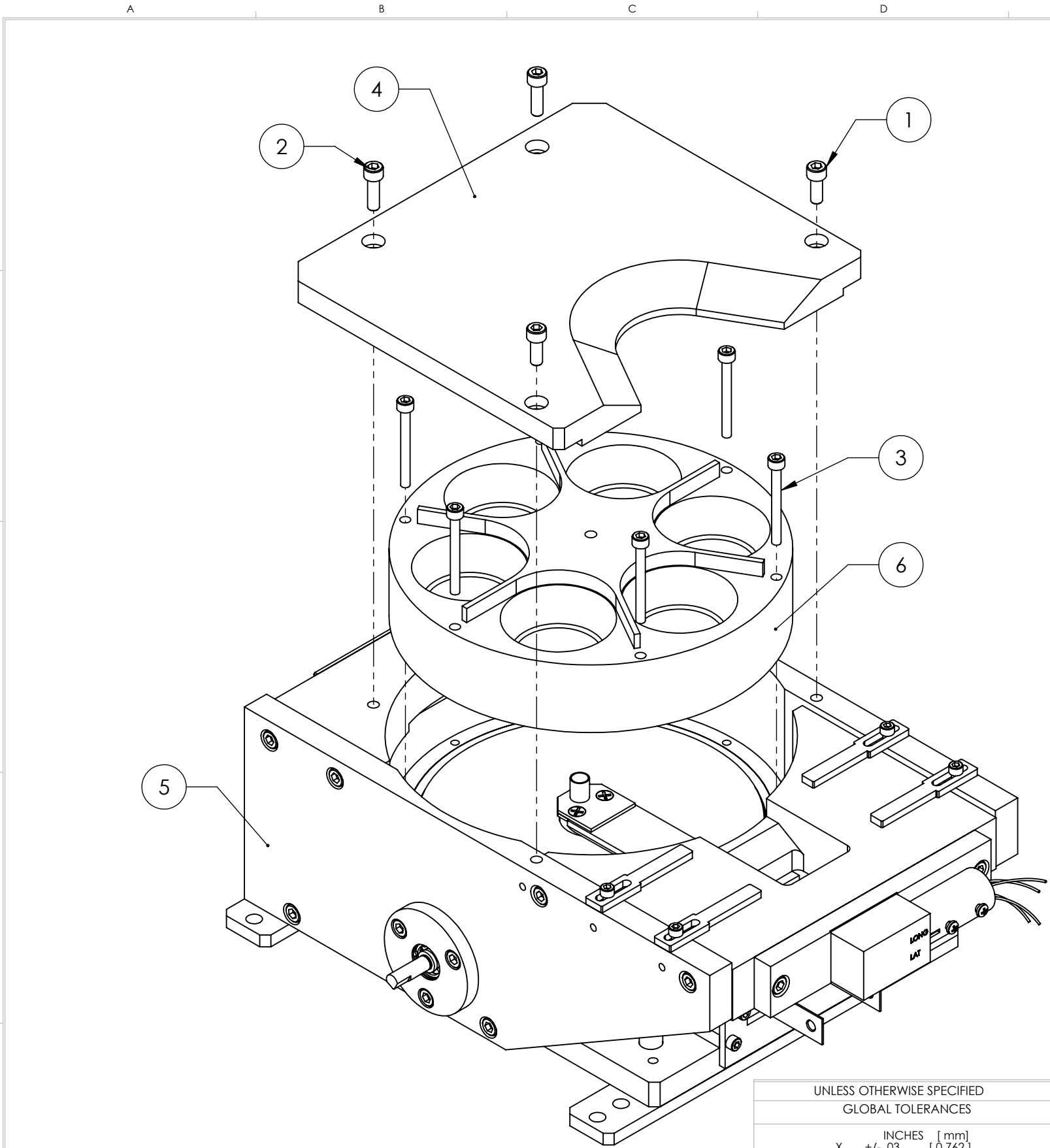
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**MODEL 274-14 EB SOURCE,  
8 PKT, 7CC, B/D**

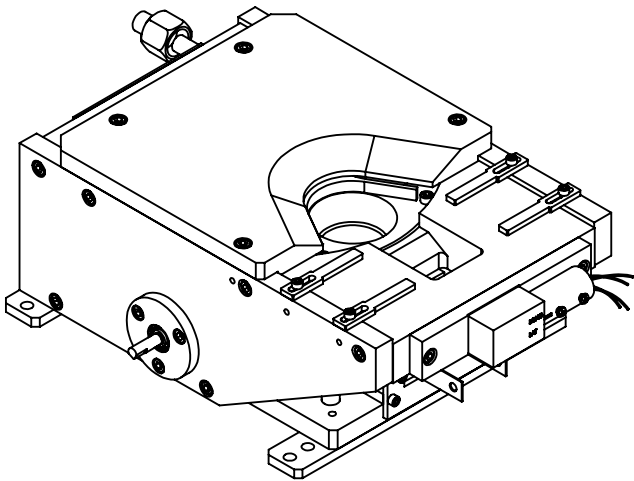
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<b>B</b>	SCALE	1:2	DWG NO.	REV
	SHEET	1 of 1	274-9914-1	A





ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9917-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0257-1	CRUCIBLE, 6X 25cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

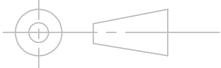
DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	

DO NOT SCALE DRAWING	
FILE NUMBER - 274-99xx-1	
INITIAL PROJECT - 274	

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

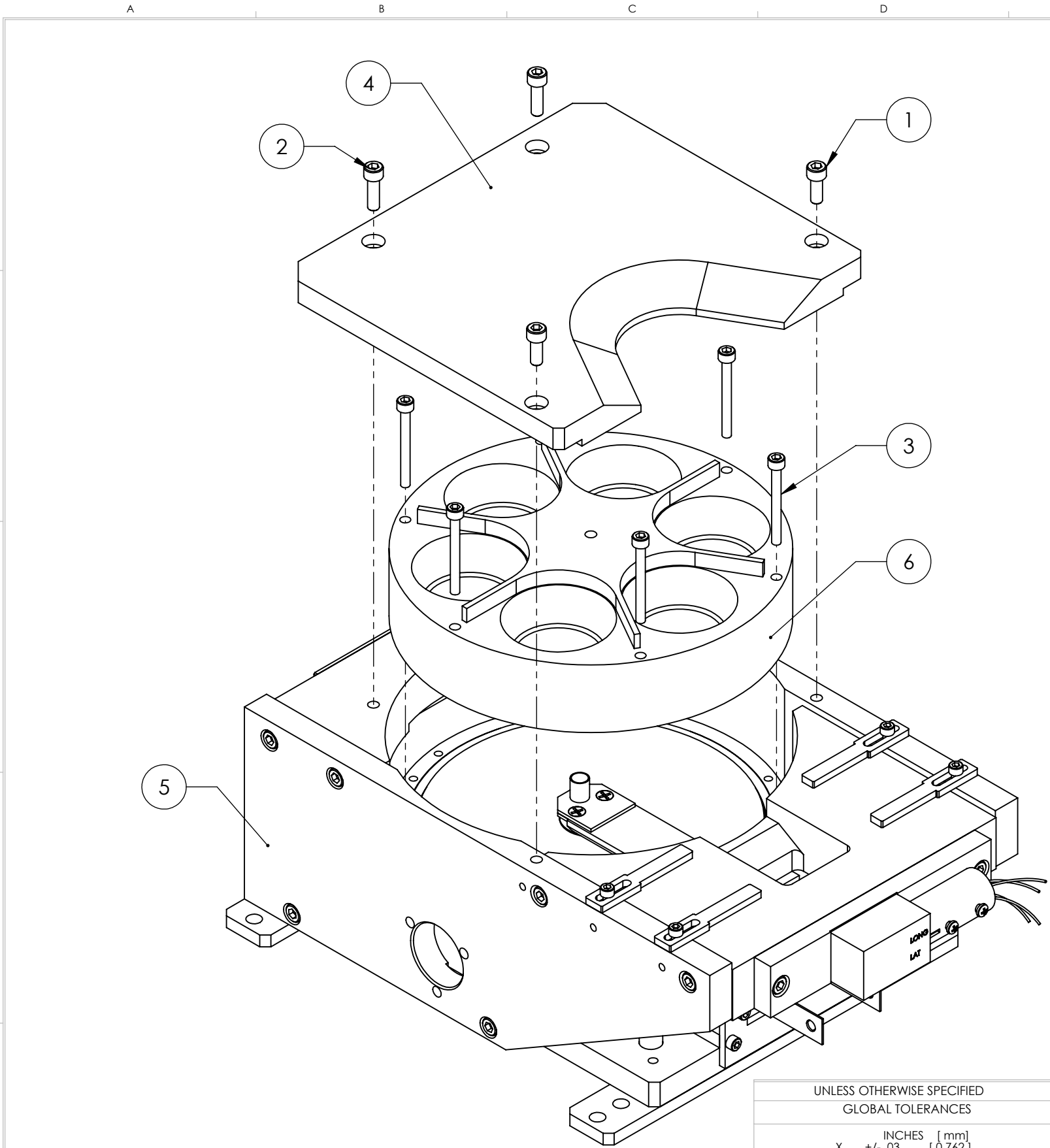


**TELEMARK** telemark.com

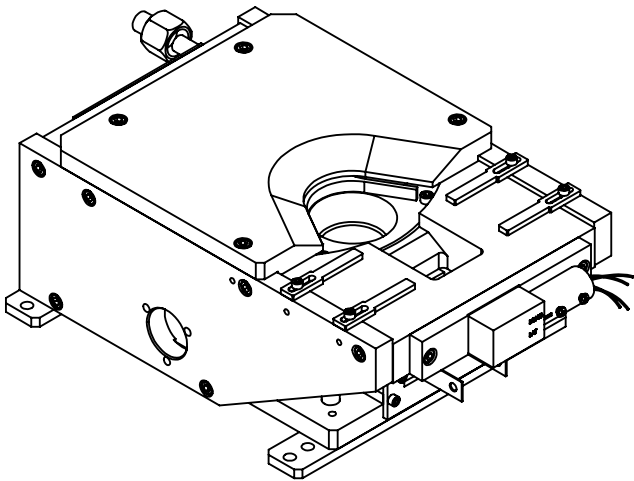
**MODEL 274-17 EB SOURCE,  
6 PKT, 25CC, S/D**

<b>B</b>	SCALE 1:2	DWG NO.	REV
	SHEET 1 of 1	274-9917-1	A

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9918-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
4	274-0074-1	COVER, 6 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0257-1	CRUCIBLE, 6X 25cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

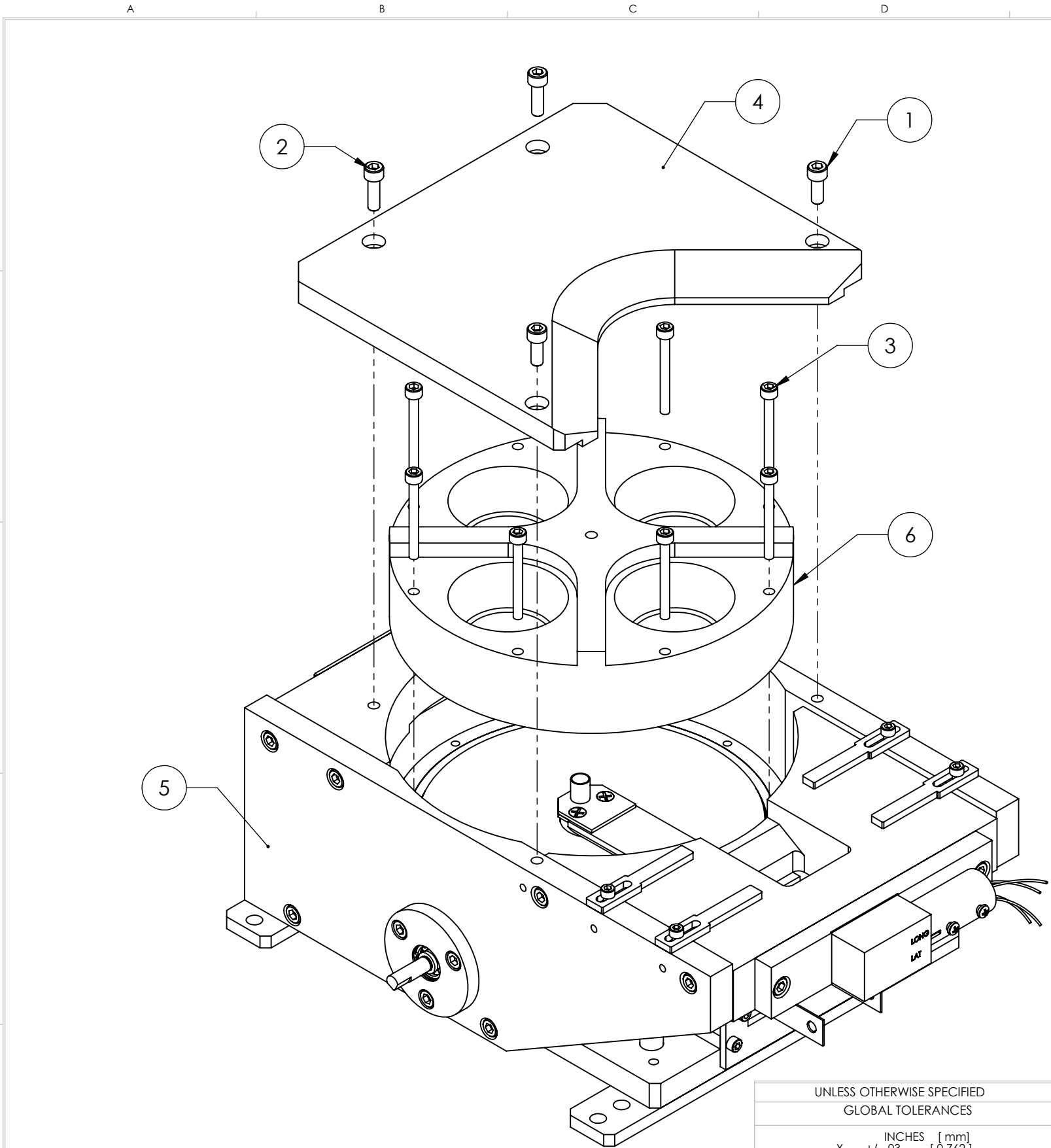


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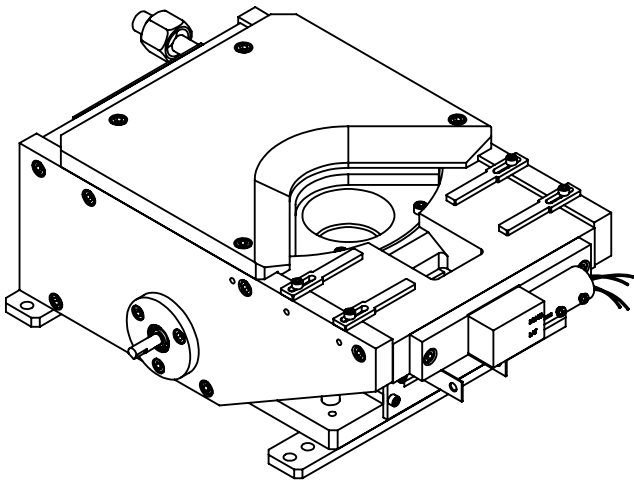
MODEL 274-18 EB SOURCE,  
6 PKT, 25CC, B/D

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B	SCALE	1:2	DWG NO.	274-9918-1	REV
	SHEET	1 of 1			A



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9919-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0221-1	CRUCIBLE, 4X 30cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

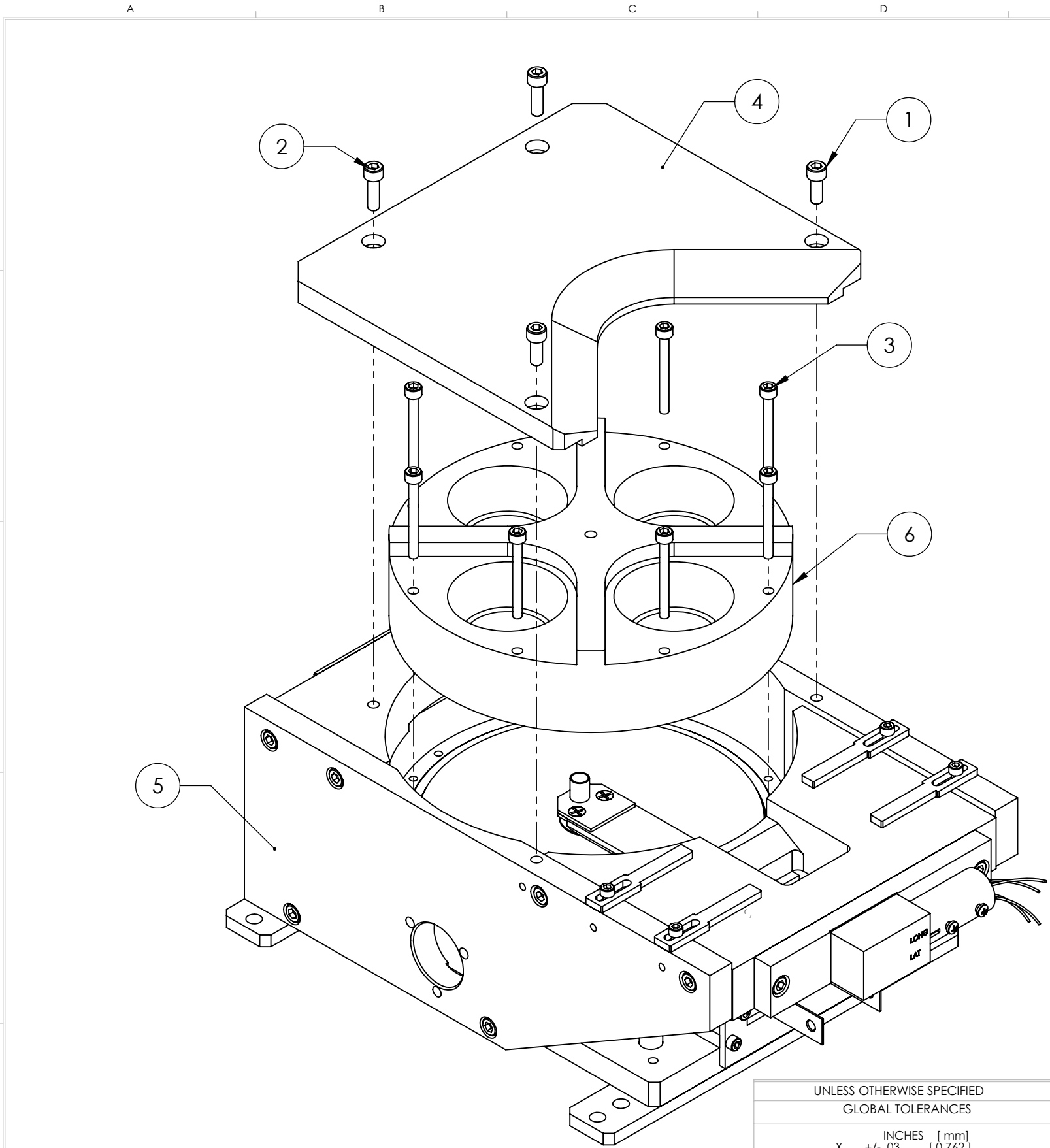
MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

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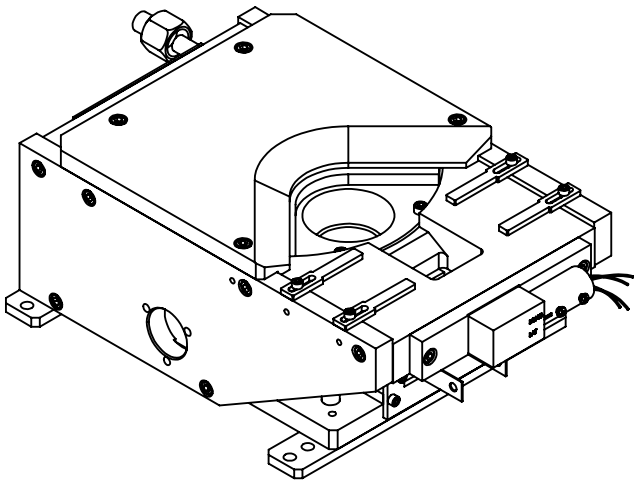
**MODEL 274-19 EB SOURCE,  
4 PKT, 30CC, S/D**

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<b>B</b>	SCALE 1:2	DWG NO.	REV
	SHEET 1 of 1	274-9919-1	A



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9920-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0221-1	CRUCIBLE, 4X 30cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

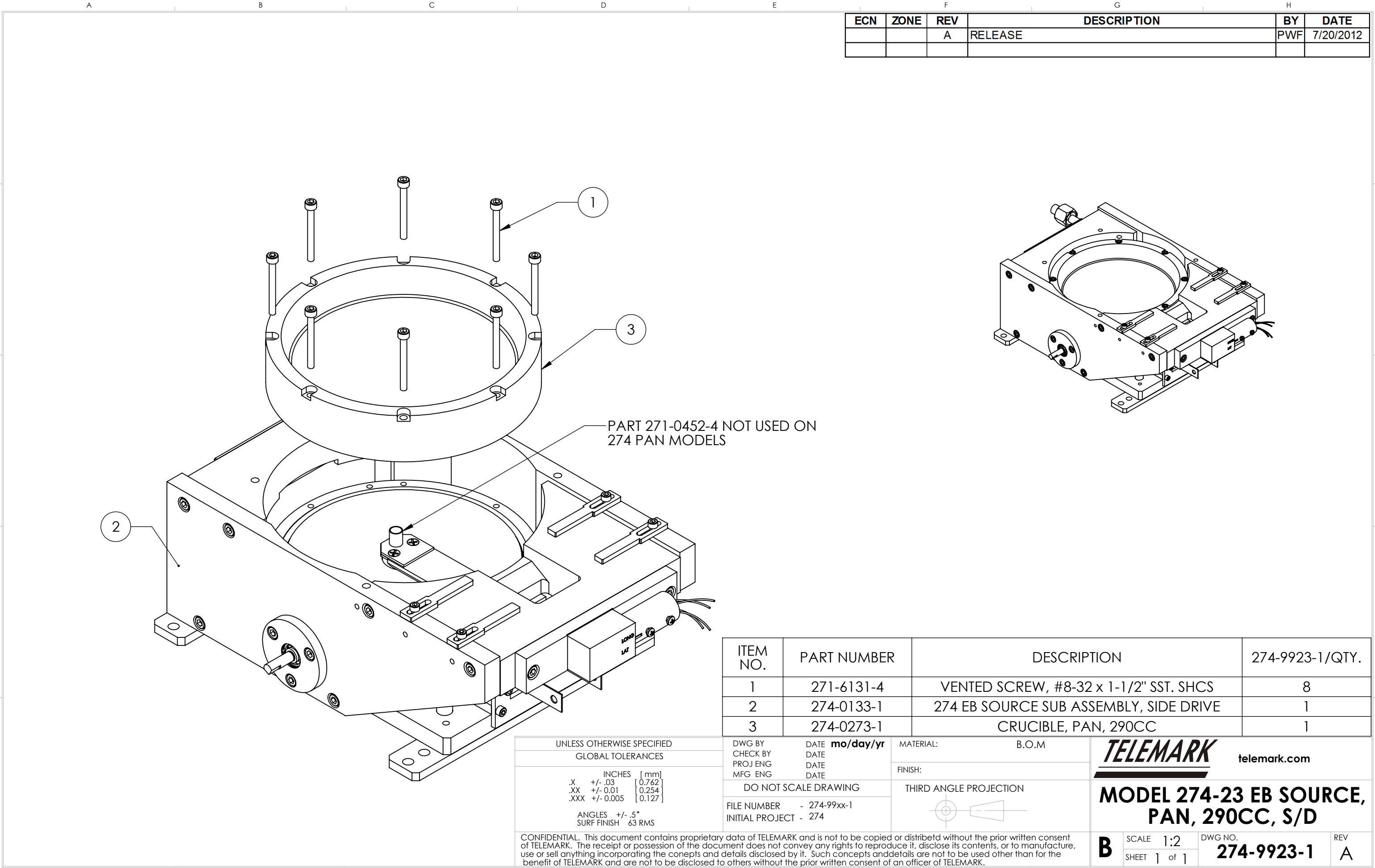
MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

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**MODEL 274-20 EB SOURCE,  
4 PKT, 30CC, B/D**

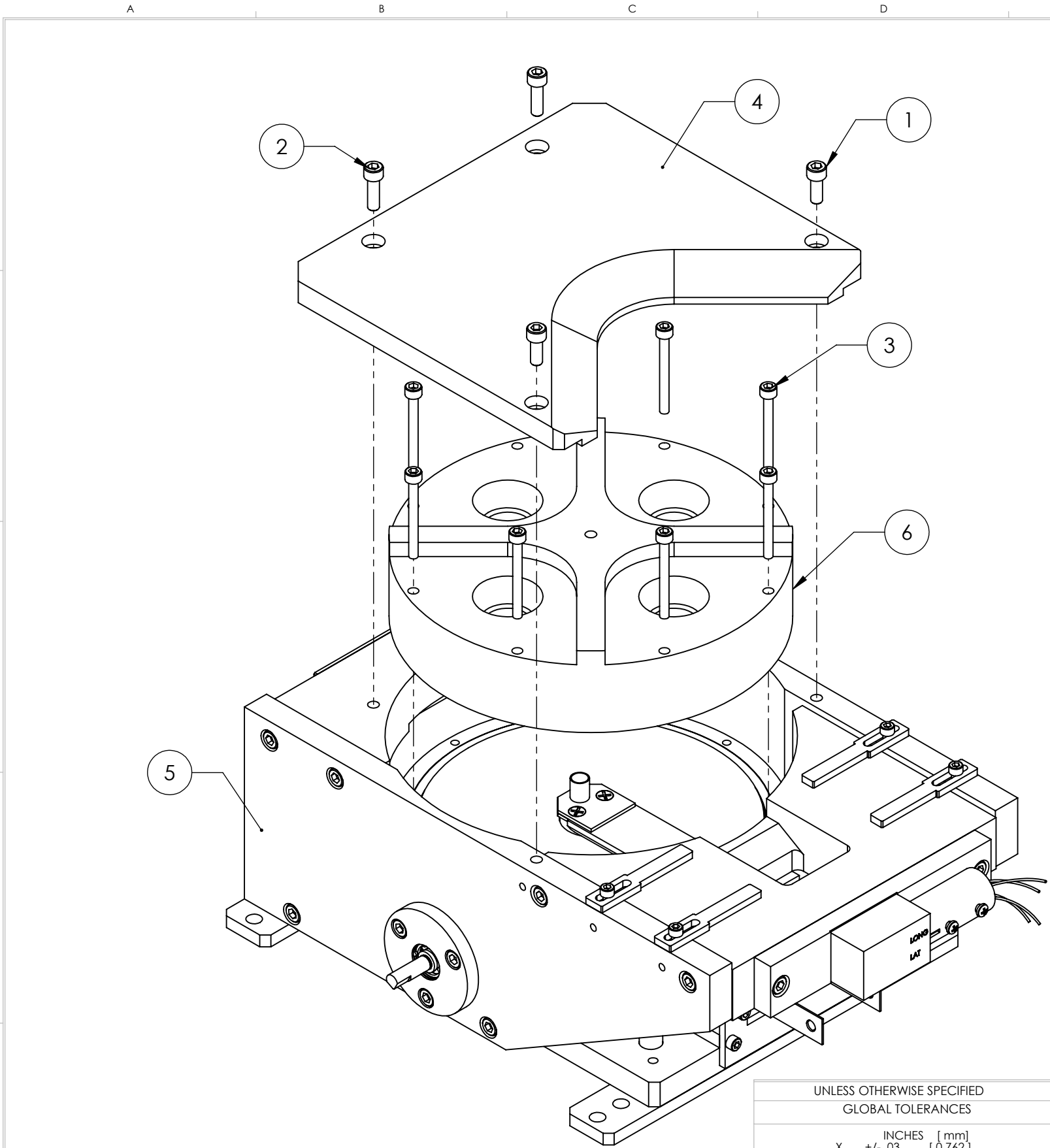
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<b>B</b>	SCALE	1:2	DWG NO.	<b>274-9920-1</b>	REV
	SHEET	1 of 1			<b>A</b>

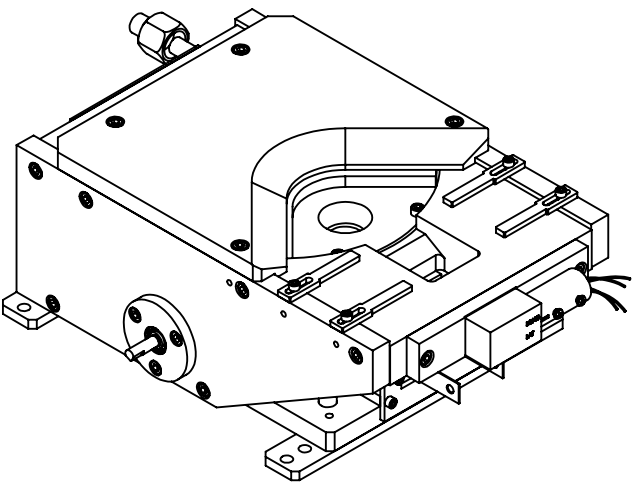








ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9927-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0209-1	CRUCIBLE, 4X 7cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

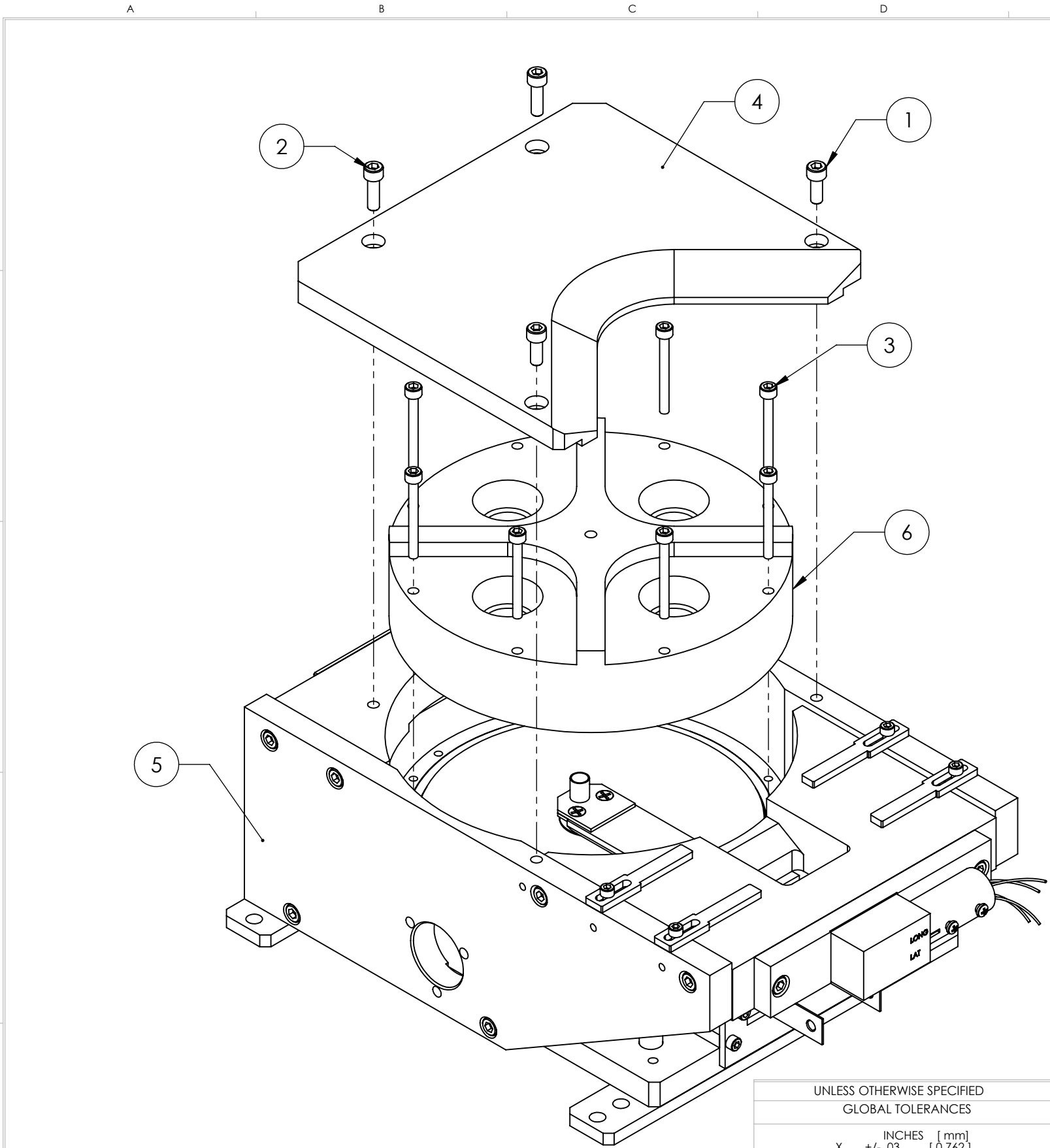


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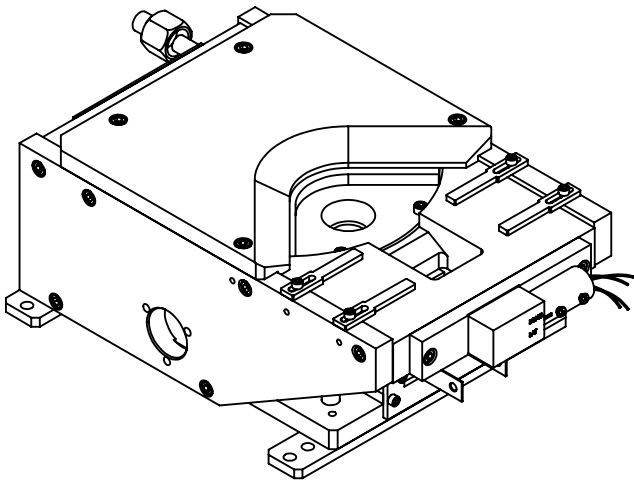
MODEL 274-27 EB SOURCE,  
4 PKT, 7CC, S/D

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B	SCALE	1:2	DWG NO.	274-9927-1	REV
	SHEET	1 of 1			A



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9928-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0209-1	CRUCIBLE, 4X 7cc	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	
DO NOT SCALE DRAWING		
FILE NUMBER	- 274-99xx-1	
INITIAL PROJECT	- 274	

MATERIAL:	B.O.M
FINISH:	
THIRD ANGLE PROJECTION	

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**MODEL 274-28 EB SOURCE,  
4 PKT, 7CC, B/D**

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<b>B</b>	SCALE	1:2	DWG NO.	<b>274-9928-1</b>	REV
	SHEET	1 of 1			<b>A</b>



1

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H

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010

ITEM NO.	PART NUMBER	DESCRIPTION	274-9931-1/QTY.
1	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
2	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
3	274-0270-1	CRUCIBLE, TROUGH, 275CC	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE  
DATE

mo/day/yr

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

FILE NUMBER - 274-99xx-1  
INITIAL PROJECT - 274

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**MODEL 274-31 EB SOURCE,  
TROUGH, 275CC, S/D**

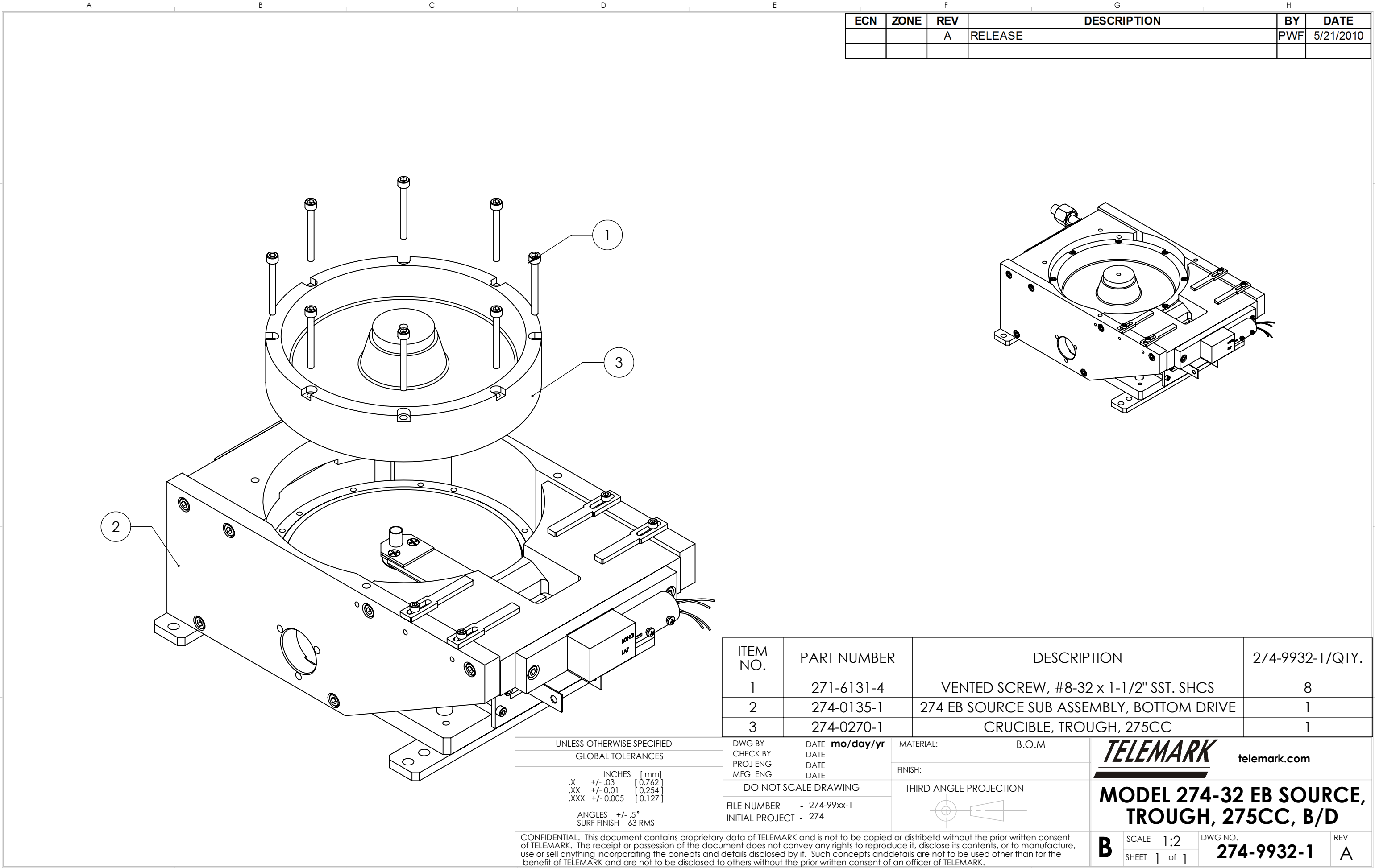
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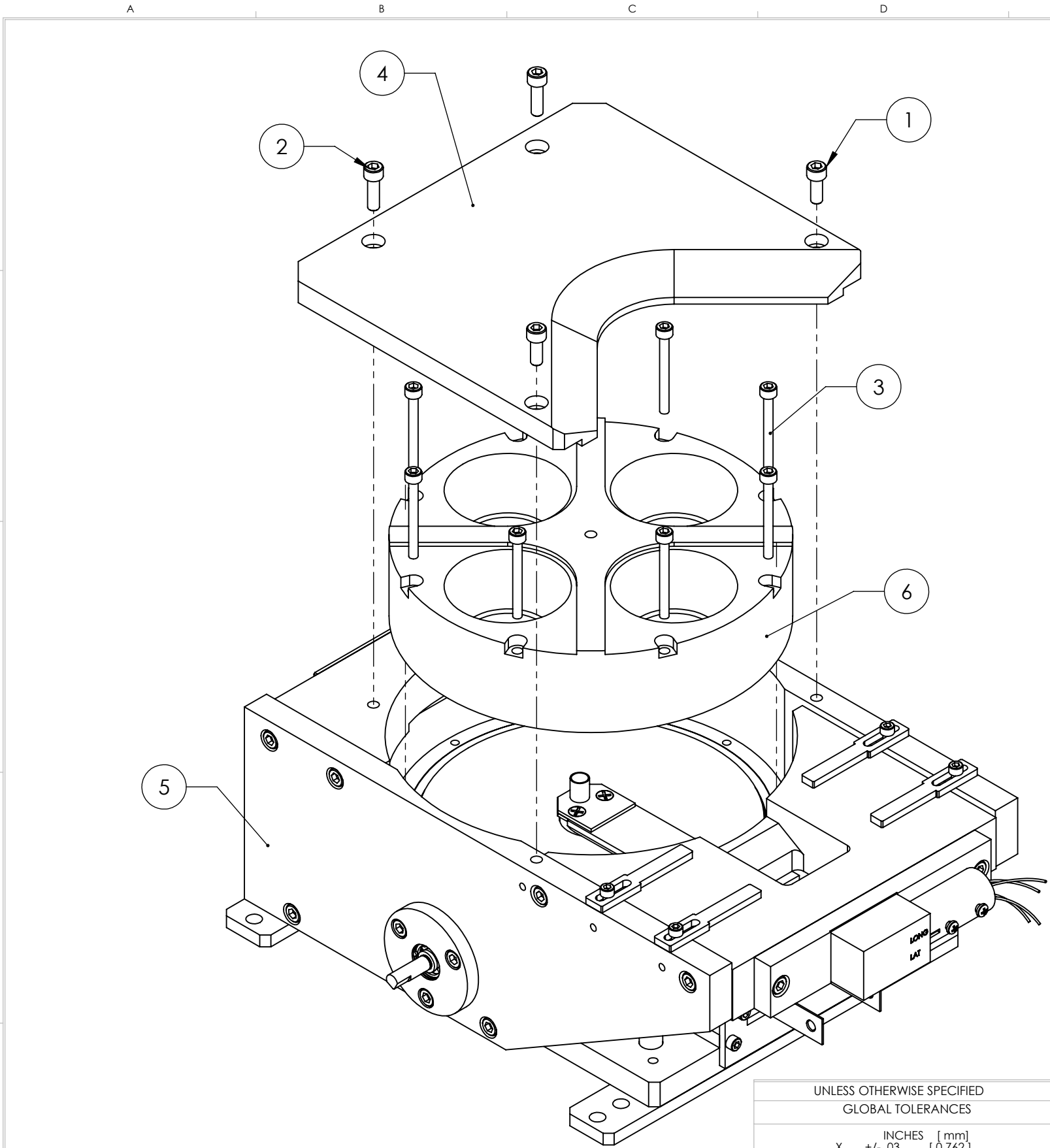
SCALE 1:2  
SHEET 1 of 1

DWG NO.  
**274-9931-1**

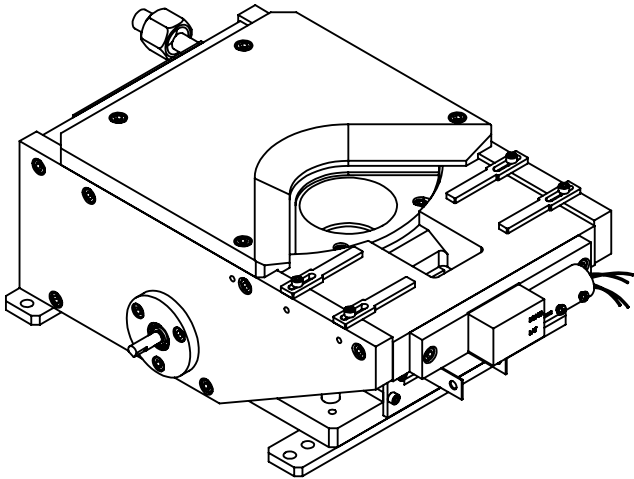
REV  
**A**

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9961-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
6	274-0227-1	CRUCIBLE, 4X 40cc	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

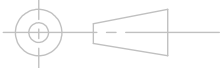
DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	

DO NOT SCALE DRAWING	
FILE NUMBER - 274-99xx-1	
INITIAL PROJECT - 274	

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

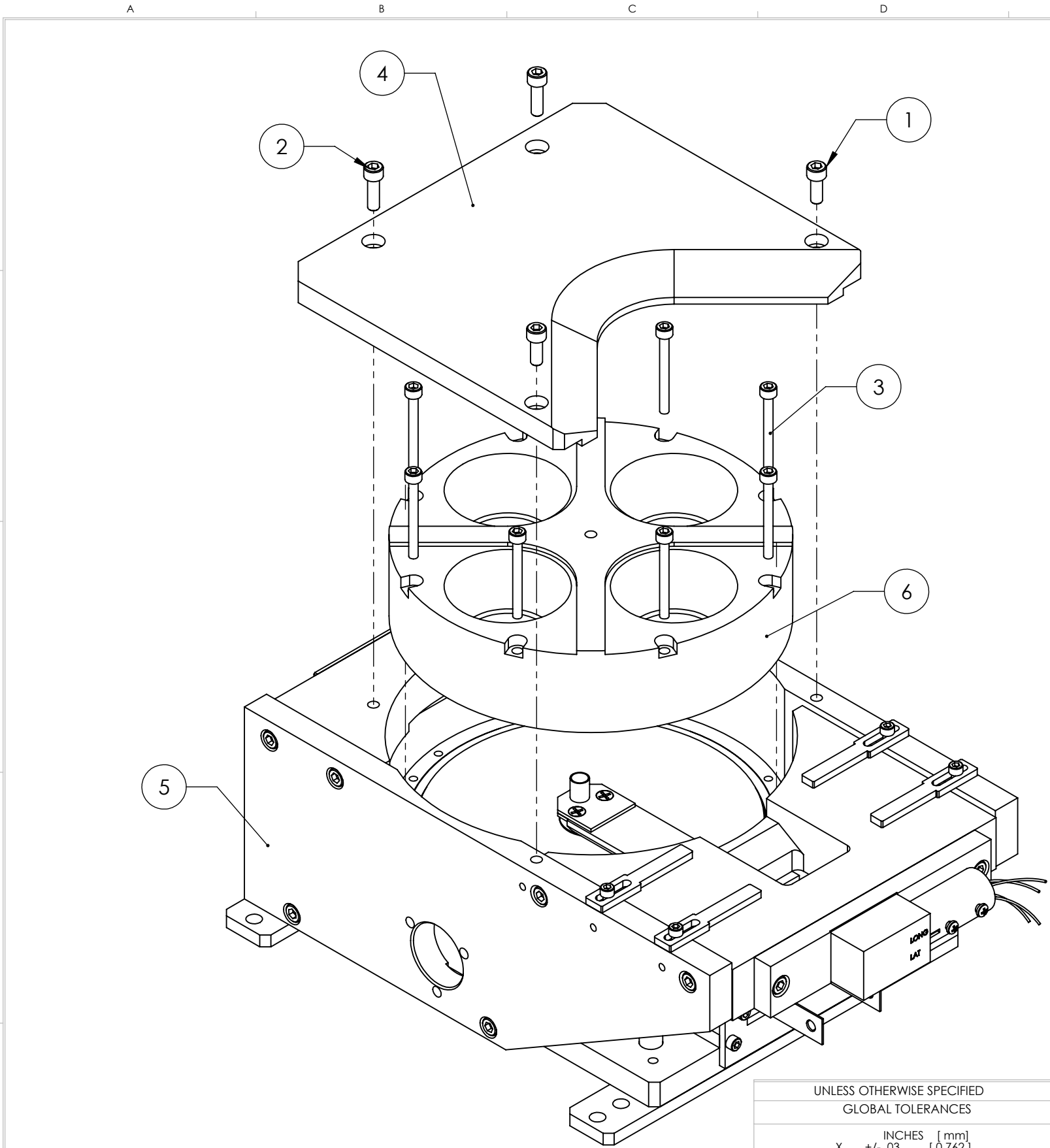


**TELEMARK** telemark.com

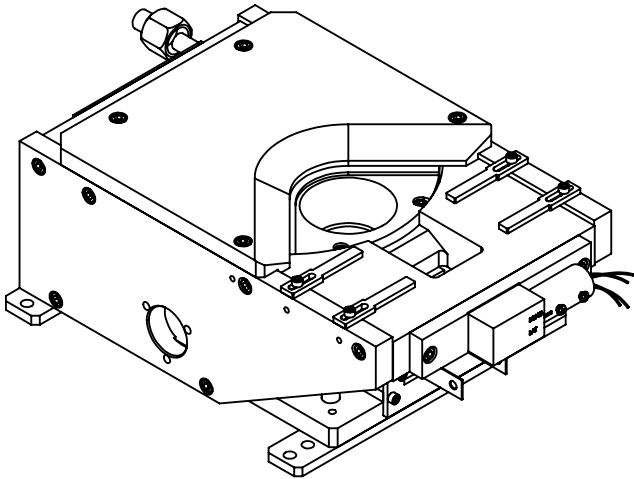
**MODEL 274-61 EB SOURCE,  
4 PKT, 40CC, S/D**

<b>B</b>	SCALE 1:2	DWG NO.	REV
	SHEET 1 of 1	274-9961-1	A

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/21/2010



ITEM NO.	PART NUMBER	DESCRIPTION	274-9962-1/QTY.
1	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
2	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	274-0073-1	COVER, 4 POCKET	1
5	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
6	274-0227-1	CRUCIBLE, 4X 40cc	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

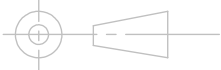
DWG BY	DATE	mo/day/yr
CHECK BY	DATE	
PROJ ENG	DATE	
MFG ENG	DATE	

DO NOT SCALE DRAWING	
FILE NUMBER	- 274-99xx-1
INITIAL PROJECT	- 274

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION



**TELEMARK** [telemark.com](http://telemark.com)

**MODEL 274-62 EB SOURCE,  
4 PKT, 40CC, B/D**

<b>B</b>	SCALE	1:2	DWG NO.	<b>274-9962-1</b>	REV
	SHEET	1 of 1			<b>A</b>

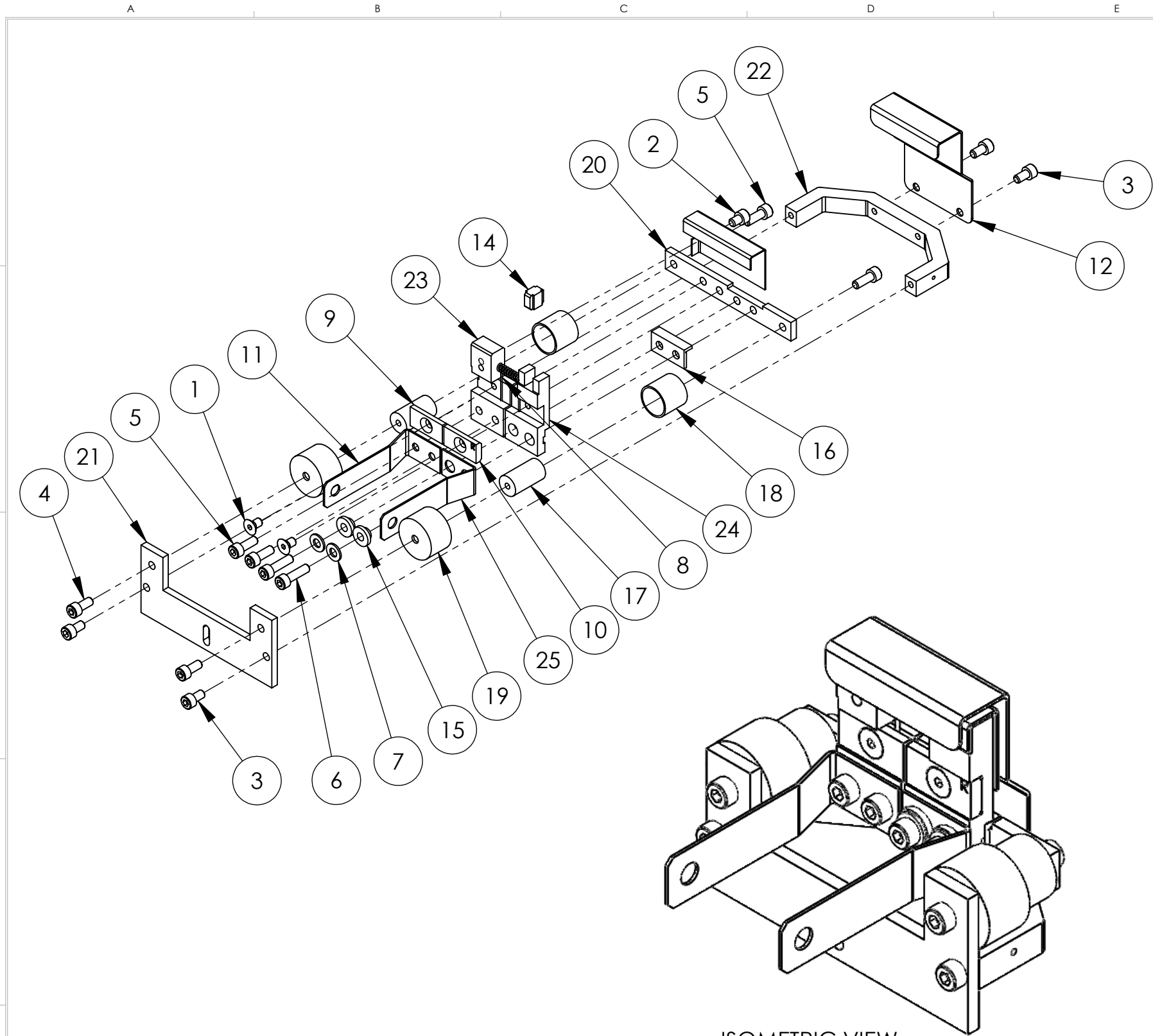
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# Common Assemblies

## **E-Beam Source**





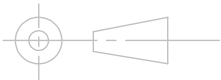
ISOMETRIC VIEW

UNLESS OTHERWISE SPECIFIED			
GLOBAL TOLERANCES			
	INCHES	[mm]	
.X	+/- .03	[0.762]	
.XX	+/- 0.01	[0.254]	
.XXX	+/- 0.005	[0.127]	
ANGLES +/- .5°			
SURF FINISH 63 RMS			

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DWG BY <b>G. DION</b>	DATE <b>7-21-2015</b>
CHECK BY	DATE
PROJ ENG	DATE
MFG ENG	DATE
DO NOT SCALE DRAWING	
FILE NUMBER	- 274-0150-1
INITIAL PROJECT	-

MATERIAL:	SEE PARTS LIST
FINISH:	SEE NOTES
THIRD ANGLE PROJECTION	



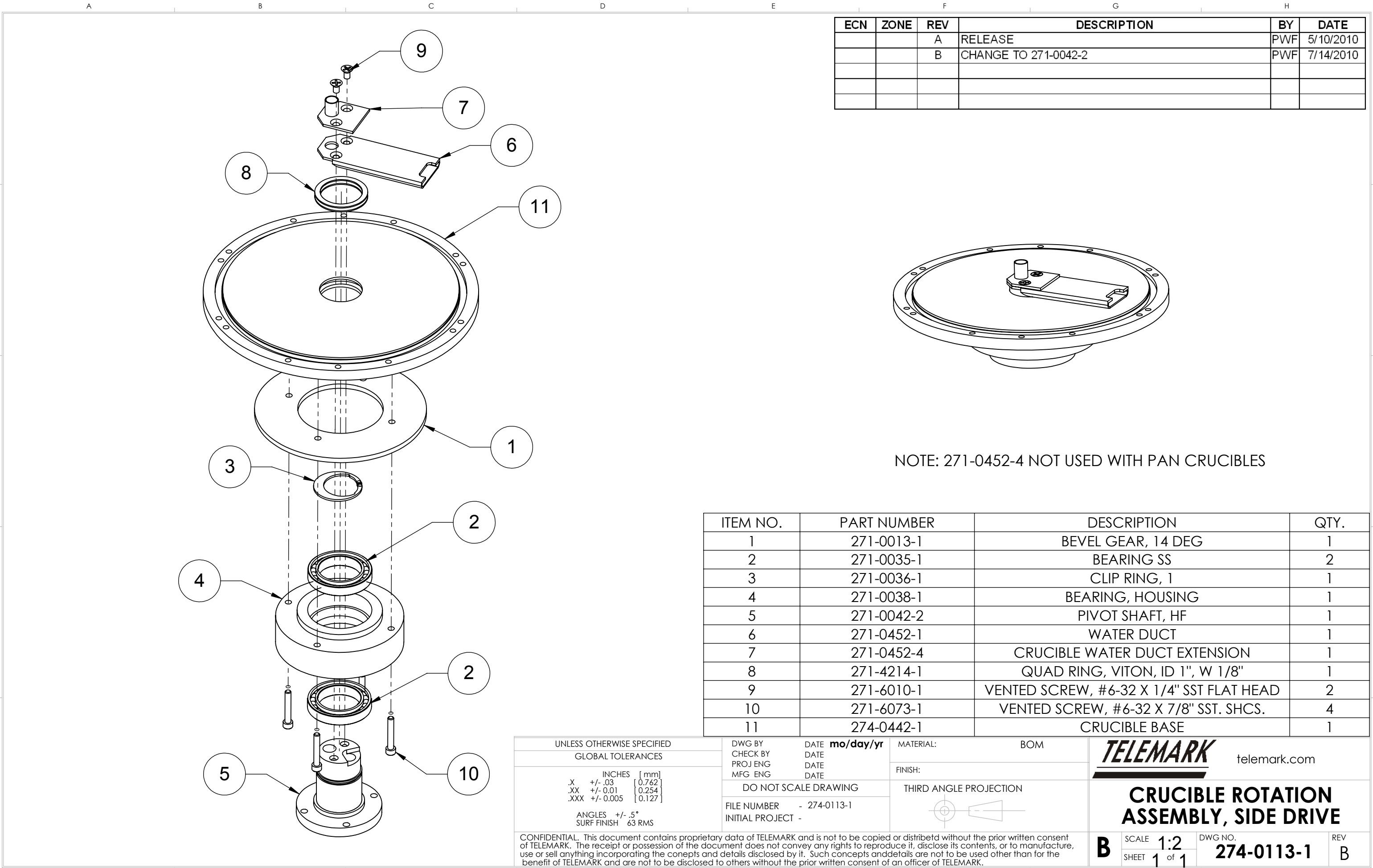
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	7/21/2015
		B	ADDING LARGER INSULATOR SHIELD	GPD	7/21/2016
		C	ITEM 17 FROM 273-0018-7 TO 273-0018-8	GPD	8/2/2016
		D	P/N FROM 273-0017-1 TO 273-0017-2 & 273-0018-8 TO 273-0018-2	GPD	2/21/2017
		E	REVISED PARTS	GPD	10/2/2017
990811		F	P/N FROM 271-6050-1 TO 271-6040-1, 2 PLACES	GPD	2/1/2018

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD, Ti	2
2	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
3	271-6030-1	VENTED SCREW, #6-32 UNC X 1/4" SST SHCS	4
4	271-6040-1	VENTED SCREW, #6-32 X 5/16 SST SHCS	2
5	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	4
6	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS	2
7	271-6242-1	FLAT WASHER, #6 SST	2
8	273-0001-1	FILAMENT, 7-1/2 TURN	1
9	273-0033-3	FILAMENT CLAMP, LEFT	1
10	273-0033-4	FILAMENT CLAMP, RIGHT	1
11	273-0035-1	EMITTER BUS BAR, LEFT	1
12	274-0003-7	ANODE	1
13	274-0004-7	BEAM FORMER	1
14	274-0005-1	INSULATOR, CROSS	1
15	274-0006-1	INSULATOR, COLLAR	2
16	274-0008-1	INSULATOR, L	1
17	274-0010-1	INSULATOR, HV	2
18	274-0011-1	HV SHIELD	2
19	274-0011-2	HV SHIELD	2
20	274-0017-2	MOUNTING BRACKET	1
21	274-0018-2	EMITTER SUPPORT BRACKET	1
22	274-0019-7	U-BRACKET	1
23	274-0031-1	CATHODE BLOCK, LEFT	1
24	274-0032-1	CATHODE BLOCK, RIGHT	1
25	274-0036-1	EMITTER BUSS BAR, RIGHT	1

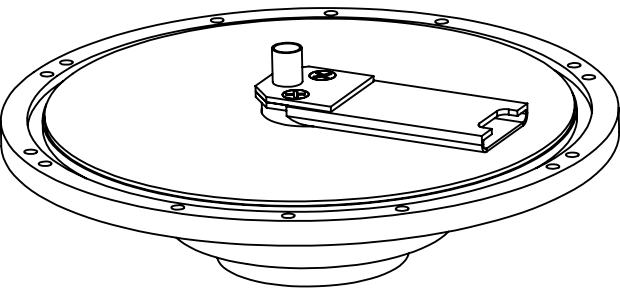
**TELEMAR** Battle Ground, WA

**EMITTER ASSEMBLY**

<b>B</b>	SCALE	1:1	DWG NO. <b>274-0150-1</b>	REV <b>F</b>
	SHEET	1 of 1		



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/10/2010
		B	CHANGE TO 271-0042-2	PWF	7/14/2010



NOTE: 271-0452-4 NOT USED WITH PAN CRUCIBLES

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0013-1	BEVEL GEAR, 14 DEG	1
2	271-0035-1	BEARING SS	2
3	271-0036-1	CLIP RING, 1	1
4	271-0038-1	BEARING, HOUSING	1
5	271-0042-2	PIVOT SHAFT, HF	1
6	271-0452-1	WATER DUCT	1
7	271-0452-4	CRUCIBLE WATER DUCT EXTENSION	1
8	271-4214-1	QUAD RING, VITON, ID 1", W 1/8"	1
9	271-6010-1	VENTED SCREW, #6-32 X 1/4" SST FLAT HEAD	2
10	271-6073-1	VENTED SCREW, #6-32 X 7/8" SST. SHCS.	4
11	274-0442-1	CRUCIBLE BASE	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE  
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 274-0113-1  
INITIAL PROJECT -

MATERIAL: BOM

FINISH:

THIRD ANGLE PROJECTION

**TELEMARK**  
telemark.com

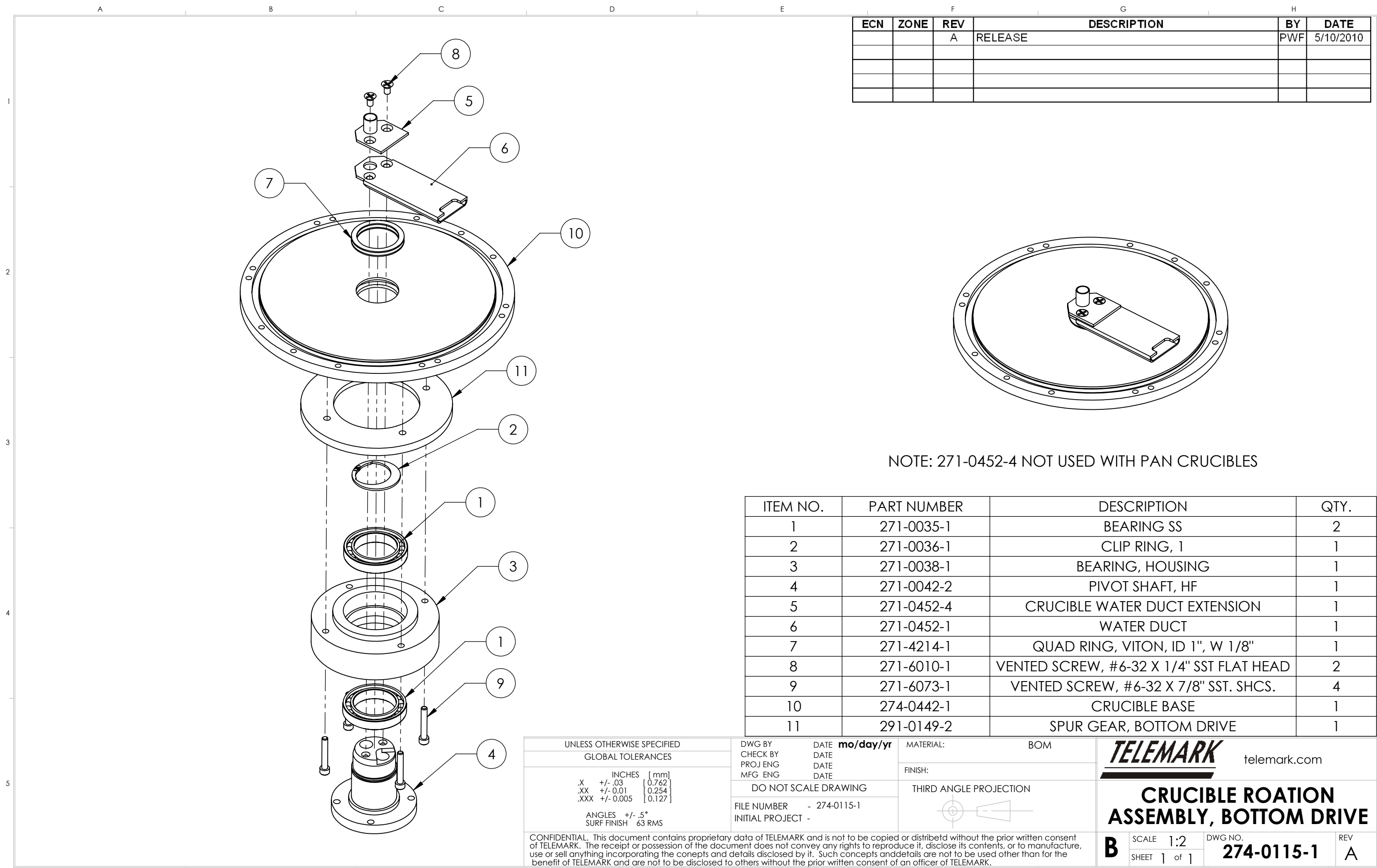
**CRUCIBLE ROTATION  
ASSEMBLY, SIDE DRIVE**

**B** SCALE 1:2  
SHEET 1 of 1

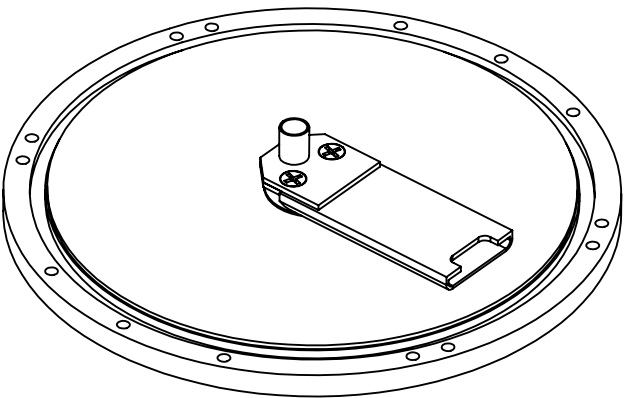
DWG NO. 274-0113-1

REV B

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/10/2010



NOTE: 271-0452-4 NOT USED WITH PAN CRUCIBLES

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0035-1	BEARING SS	2
2	271-0036-1	CLIP RING, 1	1
3	271-0038-1	BEARING, HOUSING	1
4	271-0042-2	PIVOT SHAFT, HF	1
5	271-0452-4	CRUCIBLE WATER DUCT EXTENSION	1
6	271-0452-1	WATER DUCT	1
7	271-4214-1	QUAD RING, VITON, ID 1", W 1/8"	1
8	271-6010-1	VENTED SCREW, #6-32 X 1/4" SST FLAT HEAD	2
9	271-6073-1	VENTED SCREW, #6-32 X 7/8" SST. SHCS.	4
10	274-0442-1	CRUCIBLE BASE	1
11	291-0149-2	SPUR GEAR, BOTTOM DRIVE	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE  
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 274-0115-1  
INITIAL PROJECT -

MATERIAL: BOM

FINISH:

THIRD ANGLE PROJECTION

**TELEMARK**  
telemark.com

**CRUCIBLE ROATION  
ASSEMBLY, BOTTOM DRIVE**

B

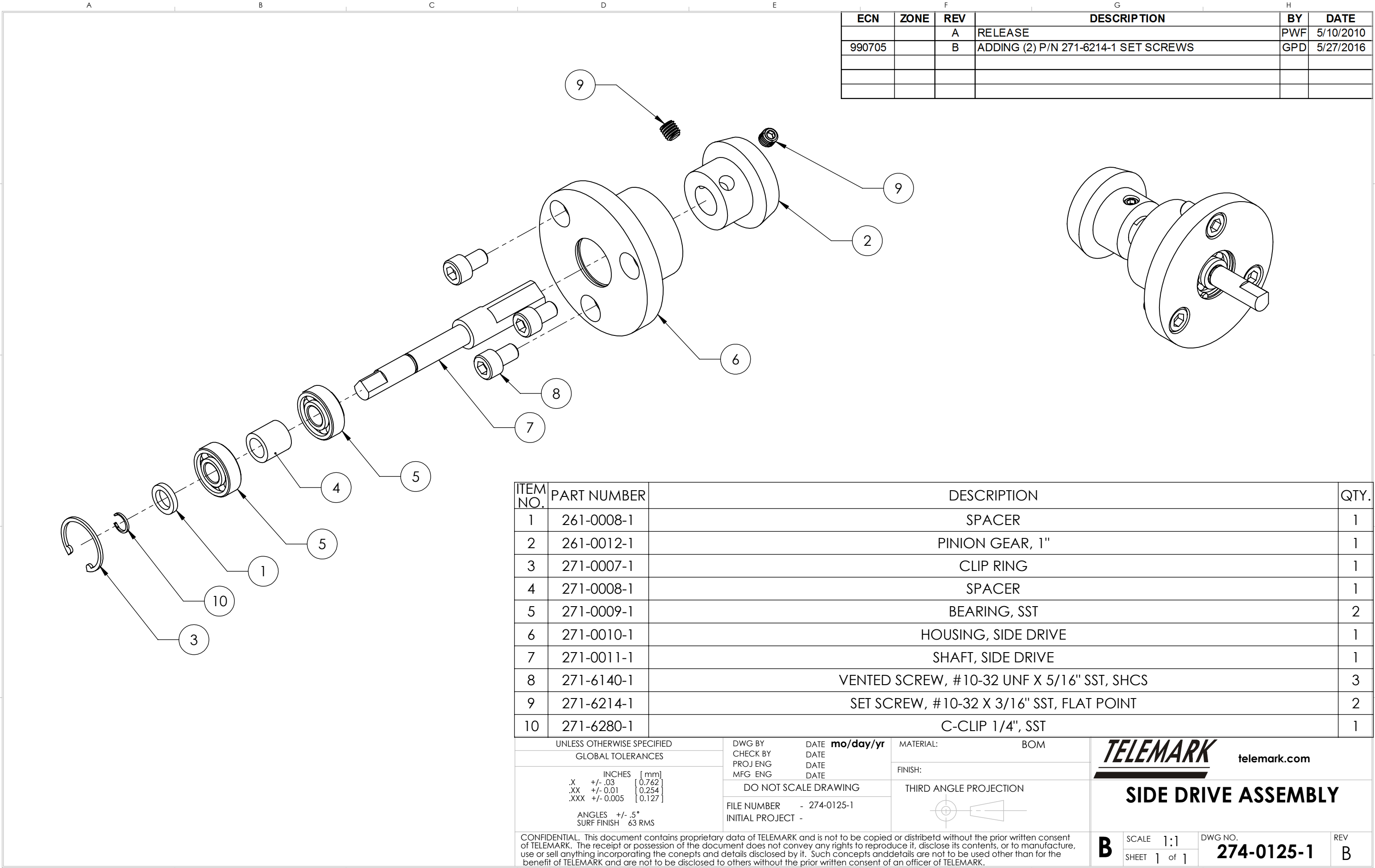
SCALE 1:2  
SHEET 1 of 1

DWG NO.  
**274-0115-1**

REV  
**A**

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/10/2010
990705		B	ADDING (2) P/N 271-6214-1 SET SCREWS	GPD	5/27/2016

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	261-0008-1	SPACER	1
2	261-0012-1	PINION GEAR, 1"	1
3	271-0007-1	CLIP RING	1
4	271-0008-1	SPACER	1
5	271-0009-1	BEARING, SST	2
6	271-0010-1	HOUSING, SIDE DRIVE	1
7	271-0011-1	SHAFT, SIDE DRIVE	1
8	271-6140-1	VENTED SCREW, #10-32 UNF X 5/16" SST, SHCS	3
9	271-6214-1	SET SCREW, #10-32 X 3/16" SST, FLAT POINT	2
10	271-6280-1	C-CLIP 1/4", SST	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES	+/- .5°
SURF FINISH	63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 274-0125-1  
INITIAL PROJECT -

MATERIAL: BOM

FINISH:

THIRD ANGLE PROJECTION

**TELEMARK**

telemark.com

**SIDE DRIVE ASSEMBLY**

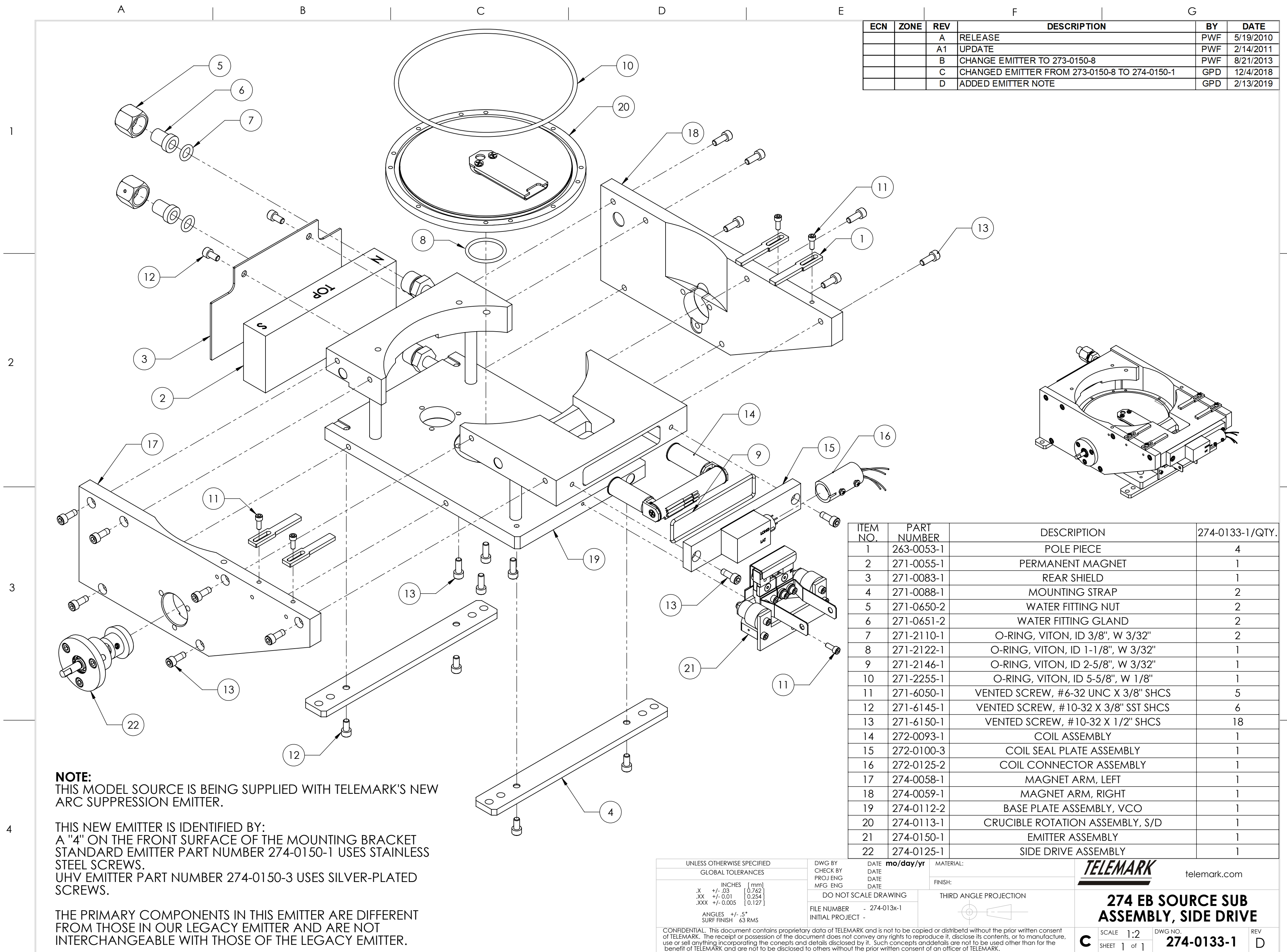
**B**

SCALE 1:1  
SHEET 1 of 1

DWG NO. 274-0125-1

REV B

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	5/19/2010
		A1	UPDATE	PWF	2/14/2011
		B	CHANGE EMITTER TO 273-0150-8	PWF	8/21/2013
		C	CHANGED EMITTER FROM 273-0150-8 TO 274-0150-1	GPD	12/4/2018
		D	ADDED EMITTER NOTE	GPD	2/13/2019

ITEM NO.	PART NUMBER	DESCRIPTION	274-0133-1/QTY.
1	263-0053-1	POLE PIECE	4
2	271-0055-1	PERMANENT MAGNET	1
3	271-0083-1	REAR SHIELD	1
4	271-0088-1	MOUNTING STRAP	2
5	271-0650-2	WATER FITTING NUT	2
6	271-0651-2	WATER FITTING GLAND	2
7	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
8	271-2122-1	O-RING, VITON, ID 1-1/8", W 3/32"	1
9	271-2146-1	O-RING, VITON, ID 2-5/8", W 3/32"	1
10	271-2255-1	O-RING, VITON, ID 5-5/8", W 1/8"	1
11	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	5
12	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	6
13	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	18
14	272-0093-1	COIL ASSEMBLY	1
15	272-0100-3	COIL SEAL PLATE ASSEMBLY	1
16	272-0125-2	COIL CONNECTOR ASSEMBLY	1
17	274-0058-1	MAGNET ARM, LEFT	1
18	274-0059-1	MAGNET ARM, RIGHT	1
19	274-0112-2	BASE PLATE ASSEMBLY, VCO	1
20	274-0113-1	CRUCIBLE ROTATION ASSEMBLY, S/D	1
21	274-0150-1	EMITTER ASSEMBLY	1
22	274-0125-1	SIDE DRIVE ASSEMBLY	1

**NOTE:**  
THIS MODEL SOURCE IS BEING SUPPLIED WITH TELEMAR'S NEW ARC SUPPRESSION EMITTER.

THIS NEW EMITTER IS IDENTIFIED BY:  
A "4" ON THE FRONT SURFACE OF THE MOUNTING BRACKET  
STANDARD EMITTER PART NUMBER 274-0150-1 USES STAINLESS  
STEEL SCREWS.  
UHV EMITTER PART NUMBER 274-0150-3 USES SILVER-PLATED  
SCREWS.

THE PRIMARY COMPONENTS IN THIS EMITTER ARE DIFFERENT  
FROM THOSE IN OUR LEGACY EMITTER AND ARE NOT  
INTERCHANGEABLE WITH THOSE OF THE LEGACY EMITTER.

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

	INCHES	[mm]
X	+/- .03	[0.762]
.XX	+/- .01	[0.254]
.XXX	+/- .005	[0.127]

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE

DO NOT SCALE DRAWING

FILE NUMBER - 274-0133-1  
INITIAL PROJECT -

MATERIAL:  
FINISH:

THIRD ANGLE PROJECTION

**TELEMAR**  
telemark.com

**274 EB SOURCE SUB  
ASSEMBLY, SIDE DRIVE**

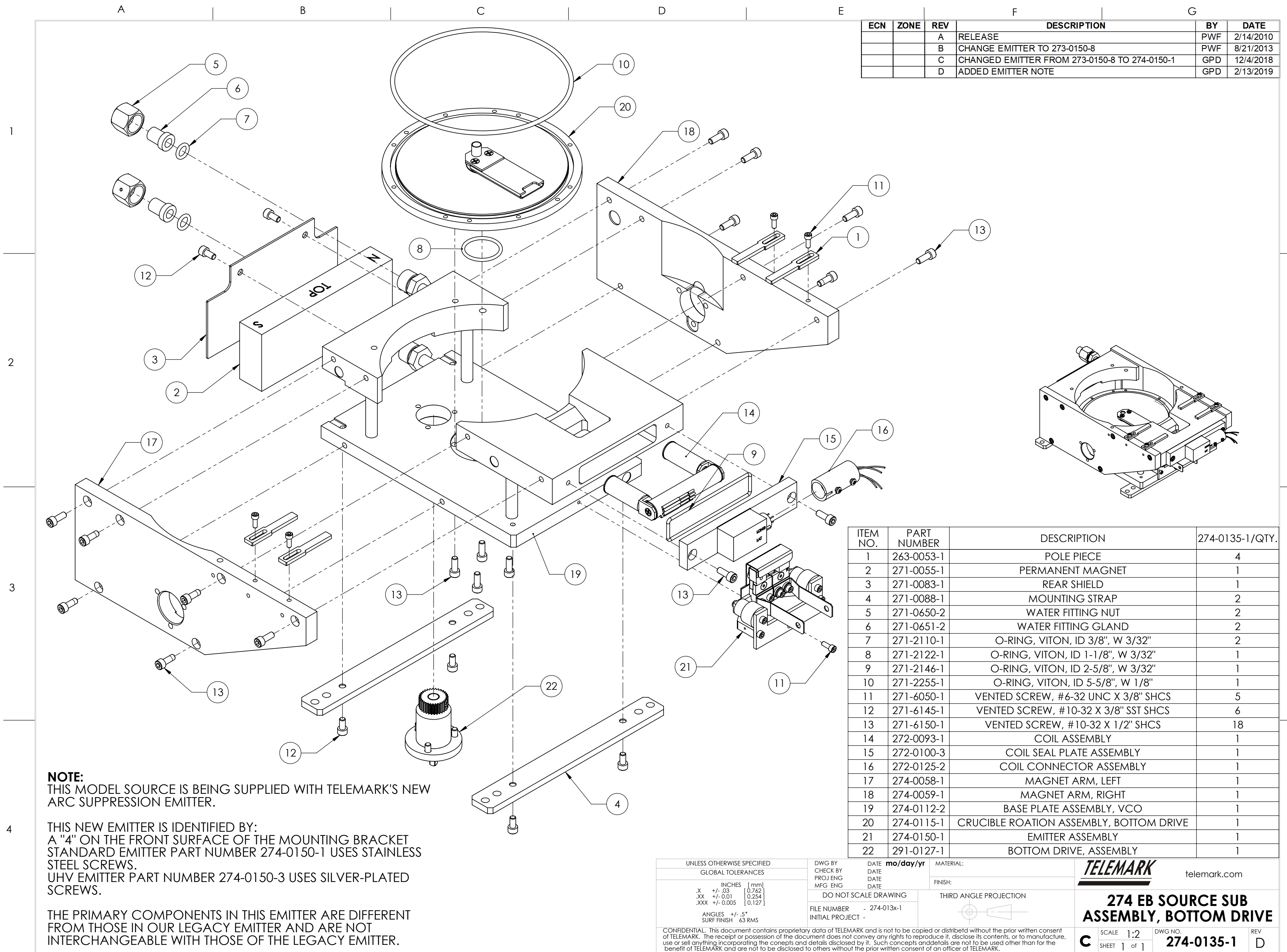
SCALE 1:2  
SHEET 1 of 1

DWG NO.  
**274-0133-1**

REV  
D

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	2/14/2010
		B	CHANGE EMITTER TO 273-0150-8	PWF	8/21/2013
		C	CHANGED EMITTER FROM 273-0150-8 TO 274-0150-1	GPD	12/4/2018
		D	ADDED EMITTER NOTE	GPD	2/13/2019

ITEM NO.	PART NUMBER	DESCRIPTION	274-0135-1/QTY.
1	263-0053-1	POLE PIECE	4
2	271-0055-1	PERMANENT MAGNET	1
3	271-0083-1	REAR SHIELD	1
4	271-0088-1	MOUNTING STRAP	2
5	271-0650-2	WATER FITTING NUT	2
6	271-0651-2	WATER FITTING GLAND	2
7	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
8	271-2122-1	O-RING, VITON, ID 1-1/8", W 3/32"	1
9	271-2146-1	O-RING, VITON, ID 2-5/8", W 3/32"	1
10	271-2255-1	O-RING, VITON, ID 5-5/8", W 1/8"	1
11	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	5
12	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	6
13	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	18
14	272-0093-1	COIL ASSEMBLY	1
15	272-0100-3	COIL SEAL PLATE ASSEMBLY	1
16	272-0125-2	COIL CONNECTOR ASSEMBLY	1
17	274-0058-1	MAGNET ARM, LEFT	1
18	274-0059-1	MAGNET ARM, RIGHT	1
19	274-0112-2	BASE PLATE ASSEMBLY, VCO	1
20	274-0115-1	CRUCIBLE ROATION ASSEMBLY, BOTTOM DRIVE	1
21	274-0150-1	EMITTER ASSEMBLY	1
22	291-0127-1	BOTTOM DRIVE, ASSEMBLY	1

**NOTE:**  
THIS MODEL SOURCE IS BEING SUPPLIED WITH TELEMAR'S NEW ARC SUPPRESSION EMITTER.

THIS NEW EMITTER IS IDENTIFIED BY:  
A "4" ON THE FRONT SURFACE OF THE MOUNTING BRACKET  
STANDARD EMITTER PART NUMBER 274-0150-1 USES STAINLESS STEEL SCREWS.  
UHV EMITTER PART NUMBER 274-0150-3 USES SILVER-PLATED SCREWS.

THE PRIMARY COMPONENTS IN THIS EMITTER ARE DIFFERENT FROM THOSE IN OUR LEGACY EMITTER AND ARE NOT INTERCHANGEABLE WITH THOSE OF THE LEGACY EMITTER.

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

INCHES	[mm]
X +/- .03	[0.762]
.XX +/- .01	[0.254]
.XXX +/- .005	[0.127]

ANGLES +/- .5°  
SURF FINISH .63 RMS

DWG BY  
CHECK BY  
PROJ ENG  
MFG ENG

DATE  
DATE  
DATE

DO NOT SCALE DRAWING

FILE NUMBER - 274-013x-1  
INITIAL PROJECT -

MATERIAL:  
FINISH:

THIRD ANGLE PROJECTION

**TELEMAR**  
telemark.com

**274 EB SOURCE SUB  
ASSEMBLY, BOTTOM DRIVE**

SCALE 1:2  
SHEET 1 of 1

DWG NO. 274-0135-1  
REV D

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# Optional Assemblies

## **Self Sealing Cover**

A

B

C

D

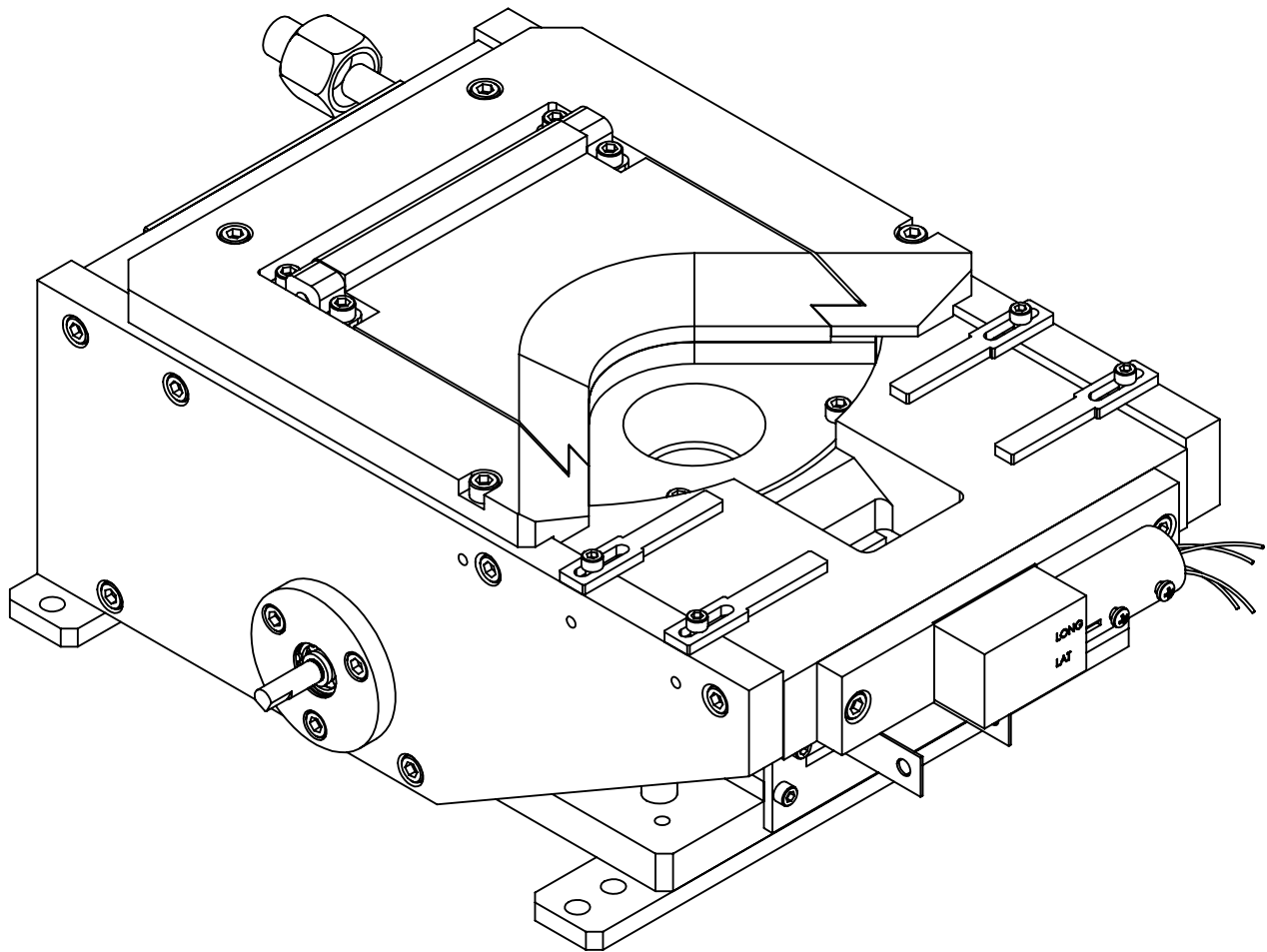
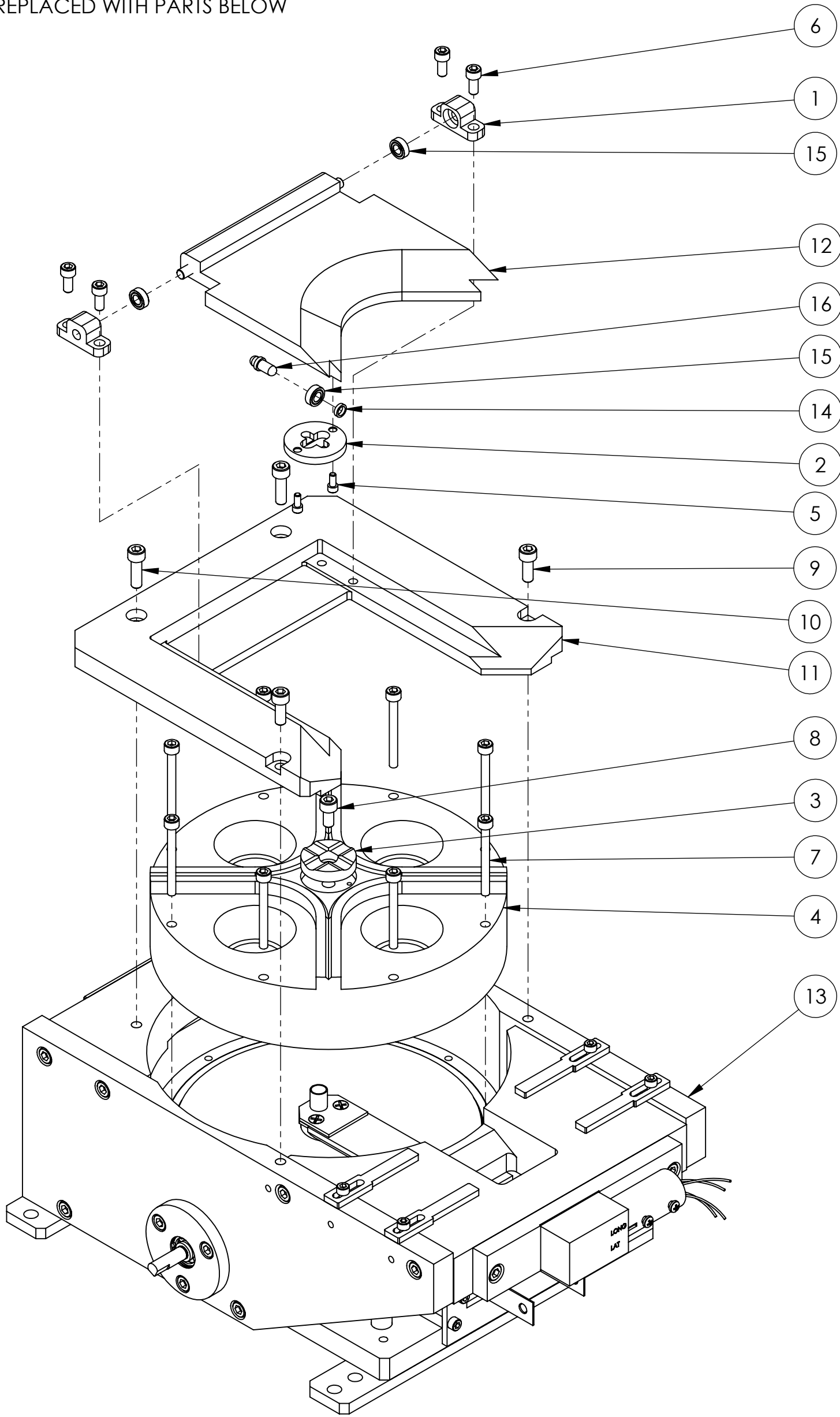
E

F

G


NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE FOR PRODUCTION	D. LY	8/11/2010
		A1	UPDATE	PWF	8/16/2012



ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	274-9901-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0210-8	CRUCIBLE, 4X 15cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED		DWG BY CHECK BY PROJ ENG MFG ENG		D. LY DATE 8/11/2010		MATERIAL: B.O.M		<div>TELEMARK</div> telemark.com	
GLOBAL TOLERANCES						FINISH:			
X INCHES [mm] +/- .03 [0.762]									
.XX +/- 0.01 [0.254]									
.XXX +/- 0.005 [0.127]									
ANGLES +/- .5°		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION					
SURF FINISH .63 RMS		FILE NUMBER - 274-99xx-1							
		INITIAL PROJECT - 274							
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						C		SCALE 1:2	DWG NO.
								SHEET 1 of 1	REV
								274-9901-1 SSC	A1



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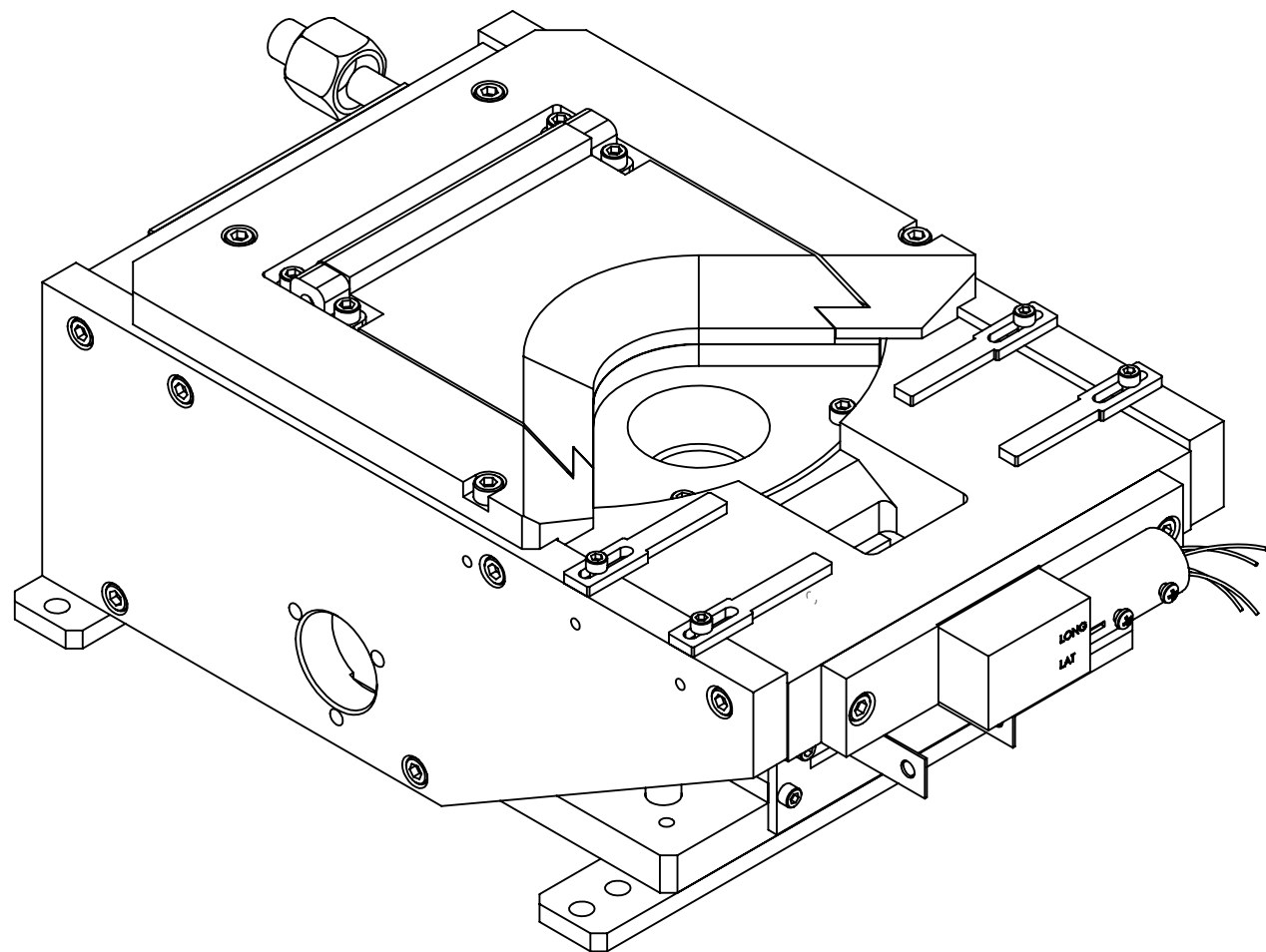
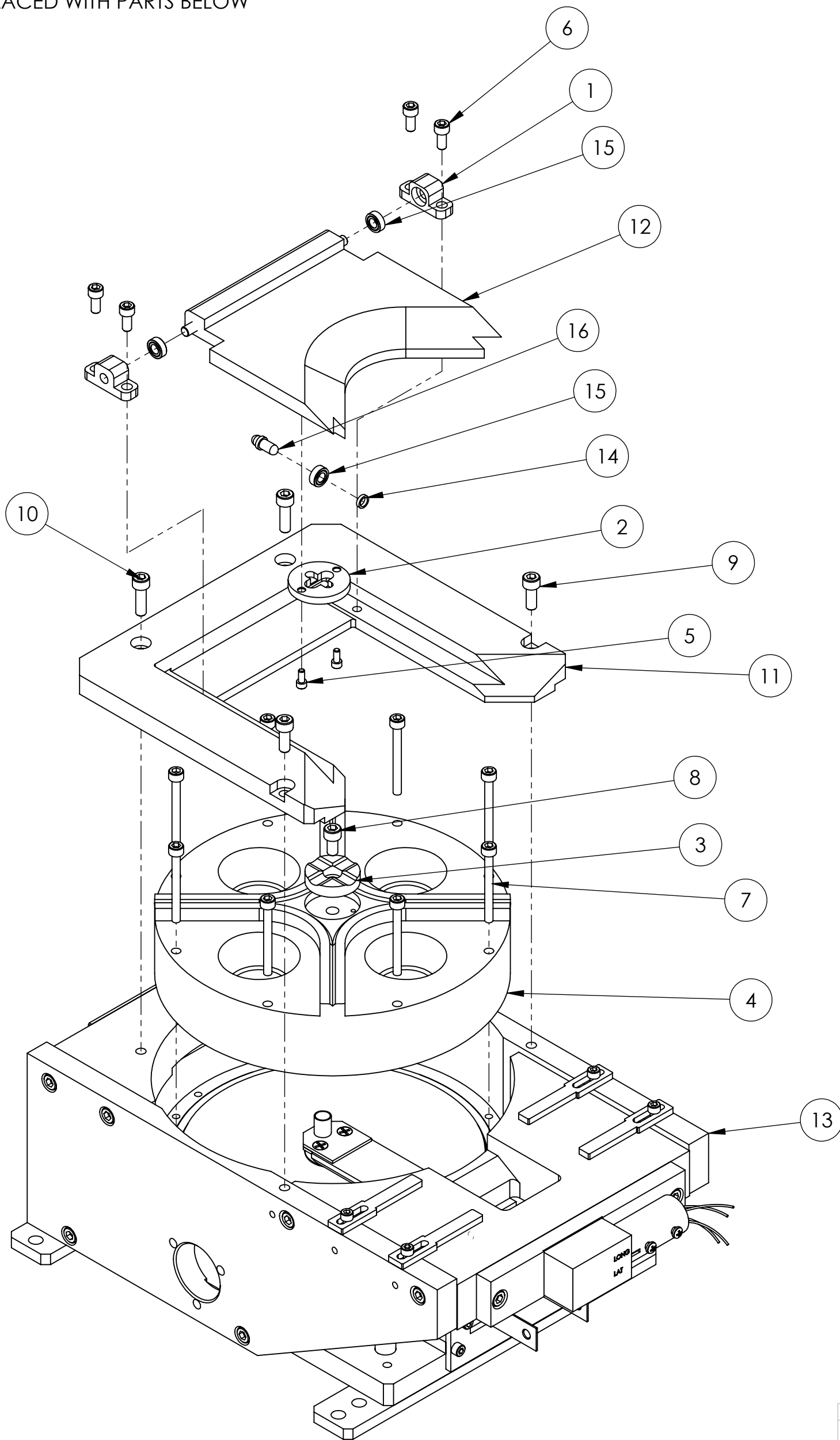
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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	274-9902-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0210-8	CRUCIBLE, 4X 15cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

X	±.03	[0.762]
.XX	±.01	[0.254]
.XXX	±.005	[0.127]

ANGLES ±.5°  
SURF FINISH .63 RMS

DWG BY **D. LY** DATE **8/12/2010**  
CHECK BY DATE  
PROJ ENG DATE  
MFG ENG DATE

DO NOT SCALE DRAWING

FILE NUMBER - 274-99xx-1  
INITIAL PROJECT - 274

MATERIAL: B.O.M.

FINISH:

THIRD ANGLE PROJECTION

**TELEMARK**  
telemark.com

**MODEL 274-02 EB SOURCE, (SSC)  
4 PKT, 15CC, B/D**

SCALE 1:2  
SHEET 1 of 1

DWG NO. **274-9902-1 SSC**

REV **A1**

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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

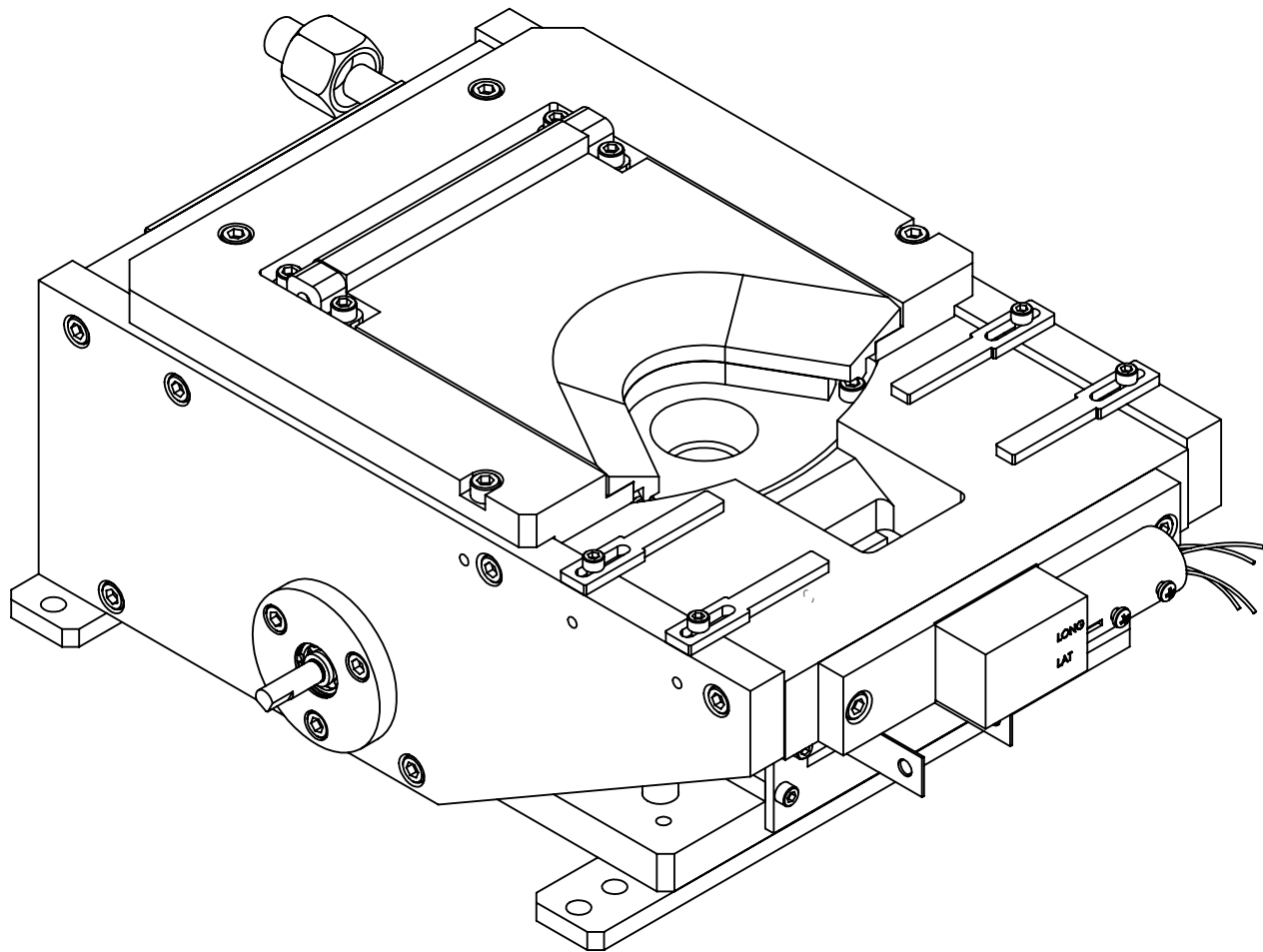
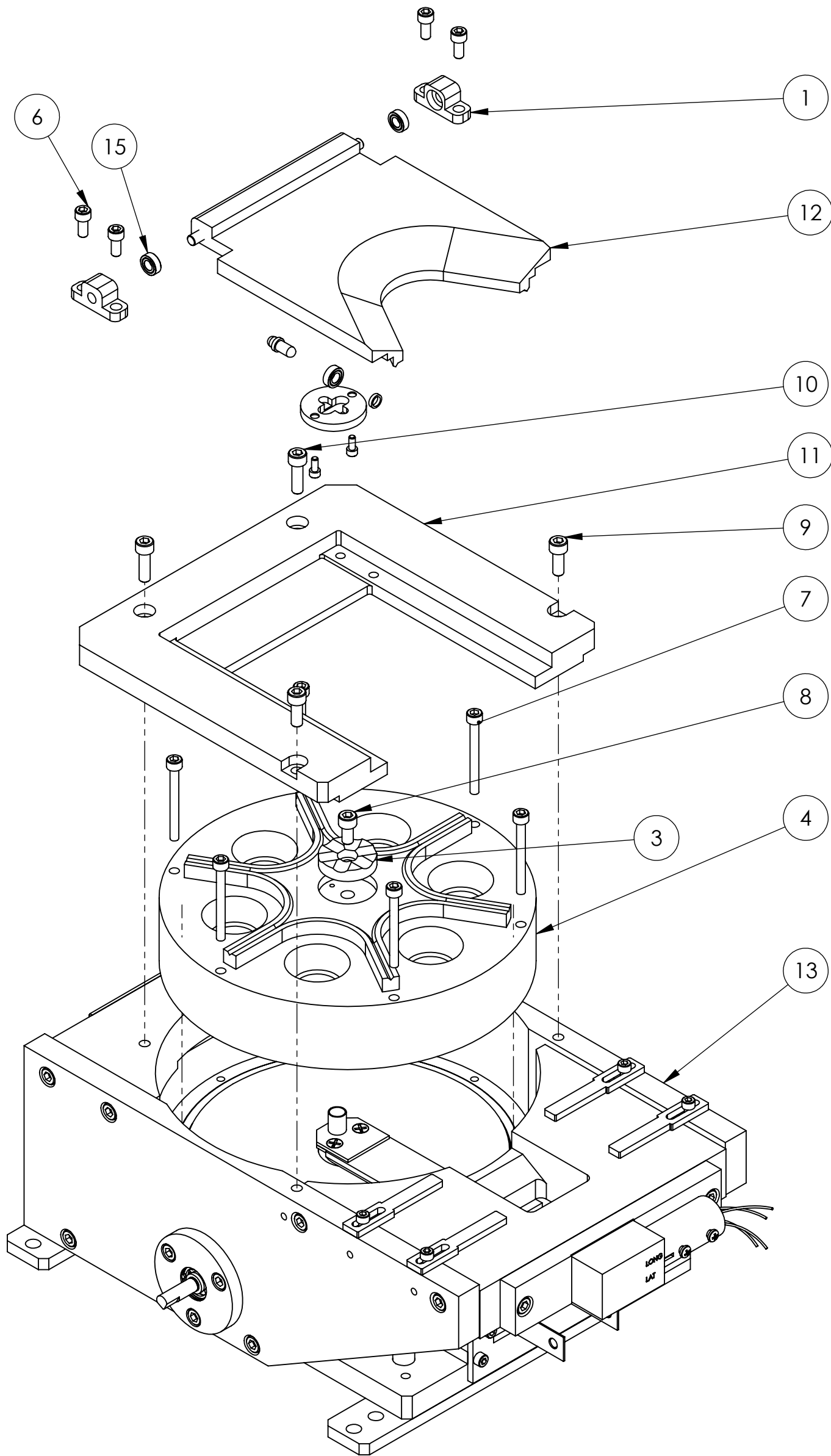
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9905-1 SSC/274-9905-1/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-2	6 POCKET, CAM	1
4	274-0245-8	CRUCIBLE, 6X 7cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-9	COVER, RAW (SSC)	1
12	274-0094-6	COVER, 6 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com  <b>MODEL 274-05 EB SOURCE, (SSC) 6 PKT, 7CC, S/D</b>
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127]  ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:  THIRD ANGLE PROJECTION	
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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

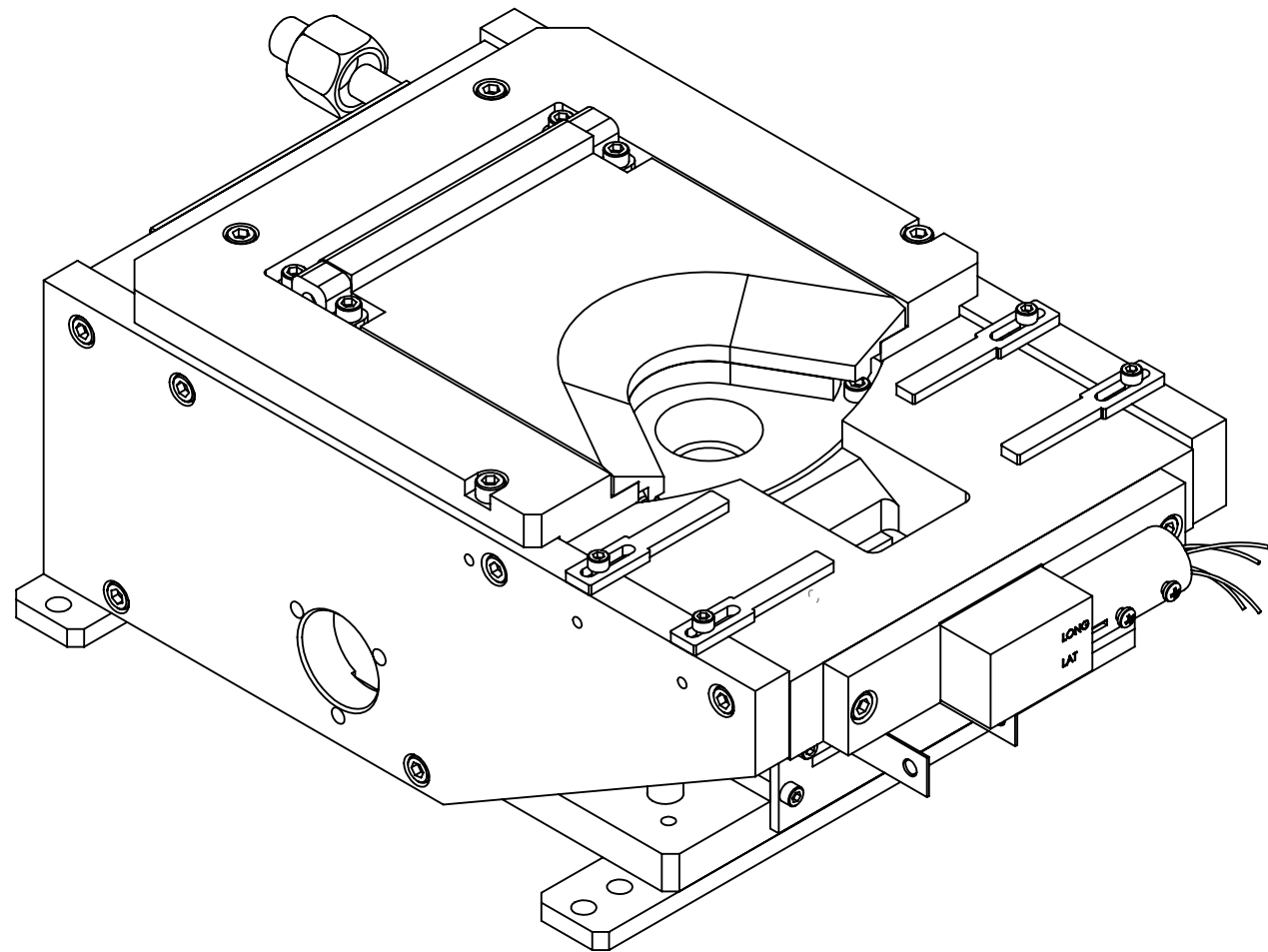
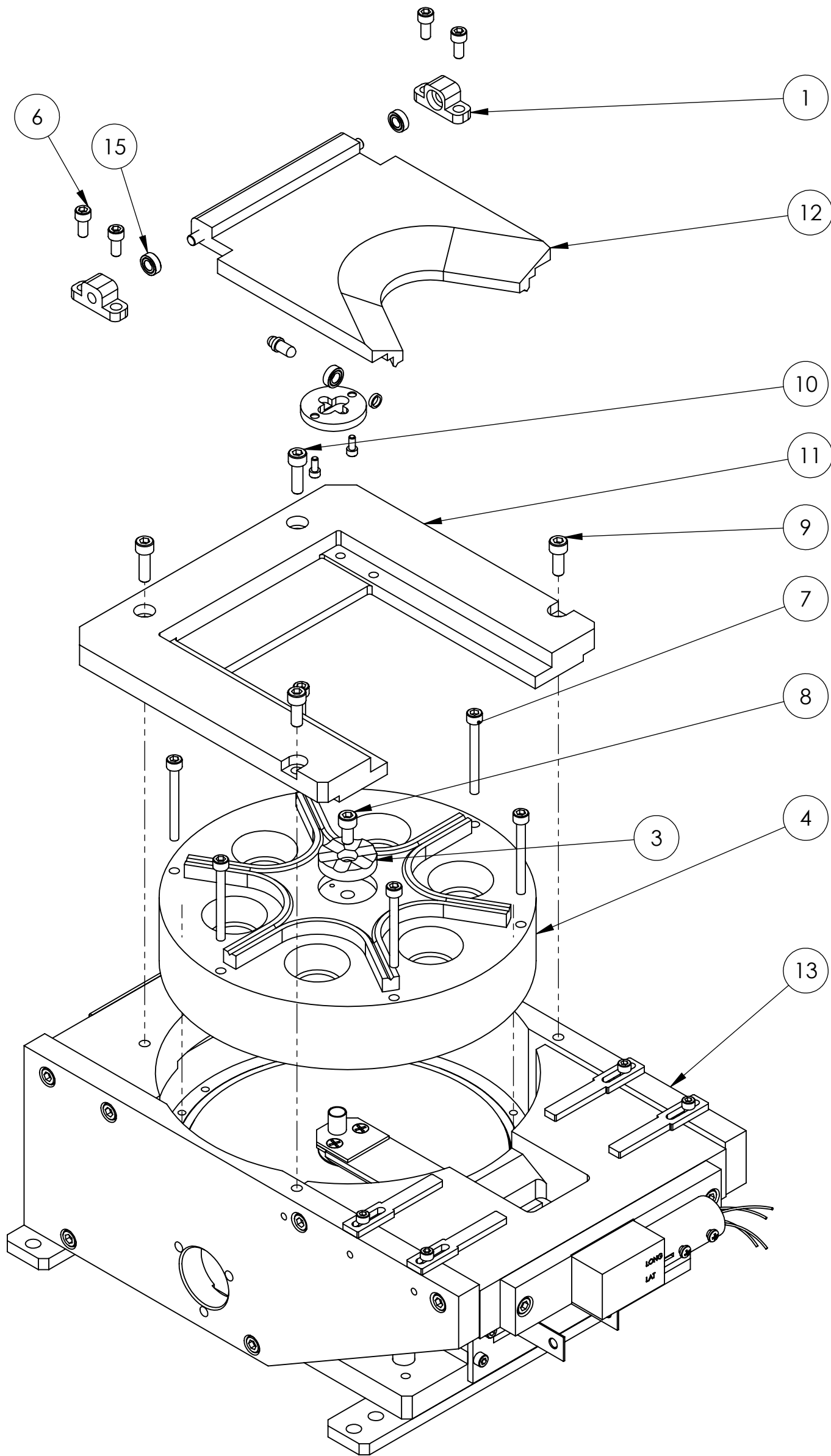
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9906-1 SSC/274-9906-1/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-2	6 POCKET, CAM	1
4	274-0245-8	CRUCIBLE, 6X 7cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-9	COVER, RAW (SSC)	1
12	274-0094-6	COVER, 6 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M.	<b>TELEMARK</b> telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:	
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C		SCALE 1:2 SHEET 1 of 1		DWG NO. 274-9906-1SSC	REV A

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This diagram shows the exploded view of the 1000 Series Motor Mounting Bracket. The main component is a large, rectangular metal bracket with a central circular opening. It features several mounting points, including a large circular flange on the left side with a central shaft. A motor is shown mounted on the right side of the bracket, with its shaft extending into the central opening. The motor is labeled "1000" and "LAT". The bracket is secured with various bolts and nuts, and a large nut is visible at the top left corner.

ITEM NO.	PART NUMBER	DESCRIPTION	274-9907-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0220-8	CRUCIBLE, 4X 25cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY <b>D. LY</b> DATE <b>8/13/2010</b>		MATERIAL: <b>B.O.M.</b>		 telemark.com	
INCHES [ mm] .X +/- .03 [ 0.762] .XX +/- .001 [ 0.254] .XXX +/- .0005 [ 0.127]		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION 		<b>MODEL 274-07 EB SOURCE, (SSC)</b> <b>4 PKT, 25CC, S/D</b>	
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER - 274-99xx-1 INITIAL PROJECT - 274				<b>C</b>	
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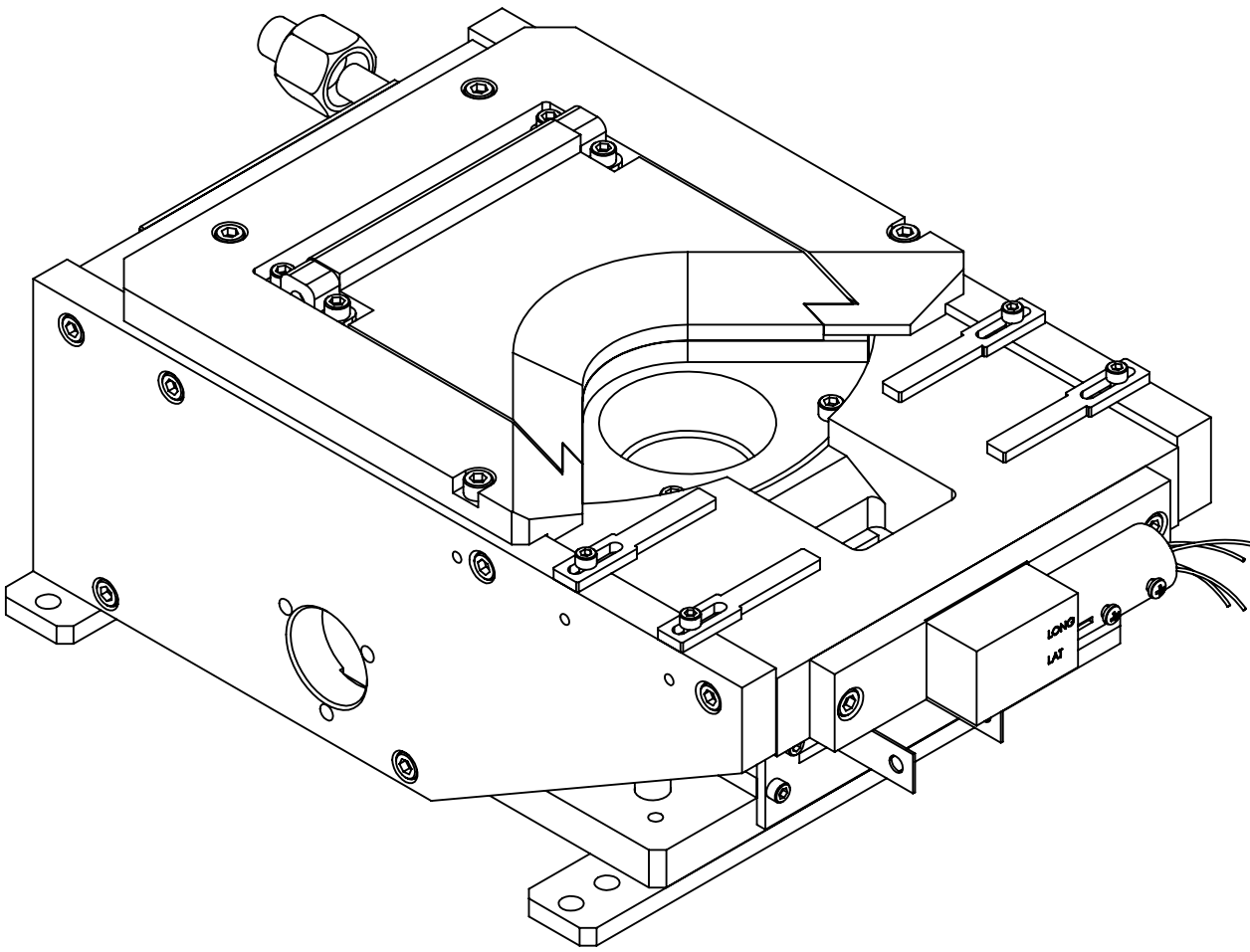
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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE FOR PRODUCTION	D. LY	8/13/2010
		A1	UPDATE	PWF	8/16/2012

NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	274-9908-1 SSC/QTY.
1	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
2	274-0220-8	CRUCIBLE, 4X 25cc (SSC)	1
3	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
4	271-0040-1	4 POCKET, CAM	1
5	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
6	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
7	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
8	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
9	274-0093-6	COVER, 4 POCKET (SSC)	1
10	271-0039-1	BEARING HOLDER	1
11	528-0069-1	BEARING	3
12	528-0068-1	SPACER .063	1
13	568-0158-1	BEARING SHAFT	1
14	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
15	271-0037-1	BEARING HOUSING (SSC)	2
16	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4

UNLESS OTHERWISE SPECIFIED		DWG BY CHECK BY PROJ ENG MFG ENG	D. LY DATE 8/13/2010	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com
GLOBAL TOLERANCES				FINISH:	
X INCHES [mm] +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127]		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	<b>MODEL 274-08 EB SOURCE, (SSC) 4 PKT, 25CC, B/D</b>
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER - 274-99xx-1 INITIAL PROJECT - 274			
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<b>C</b>	SCALE	1:2	DWG NO.	REV	
	SHEET	1 of 1	<b>274-9908-1 SSC</b>	<b>A1</b>	

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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

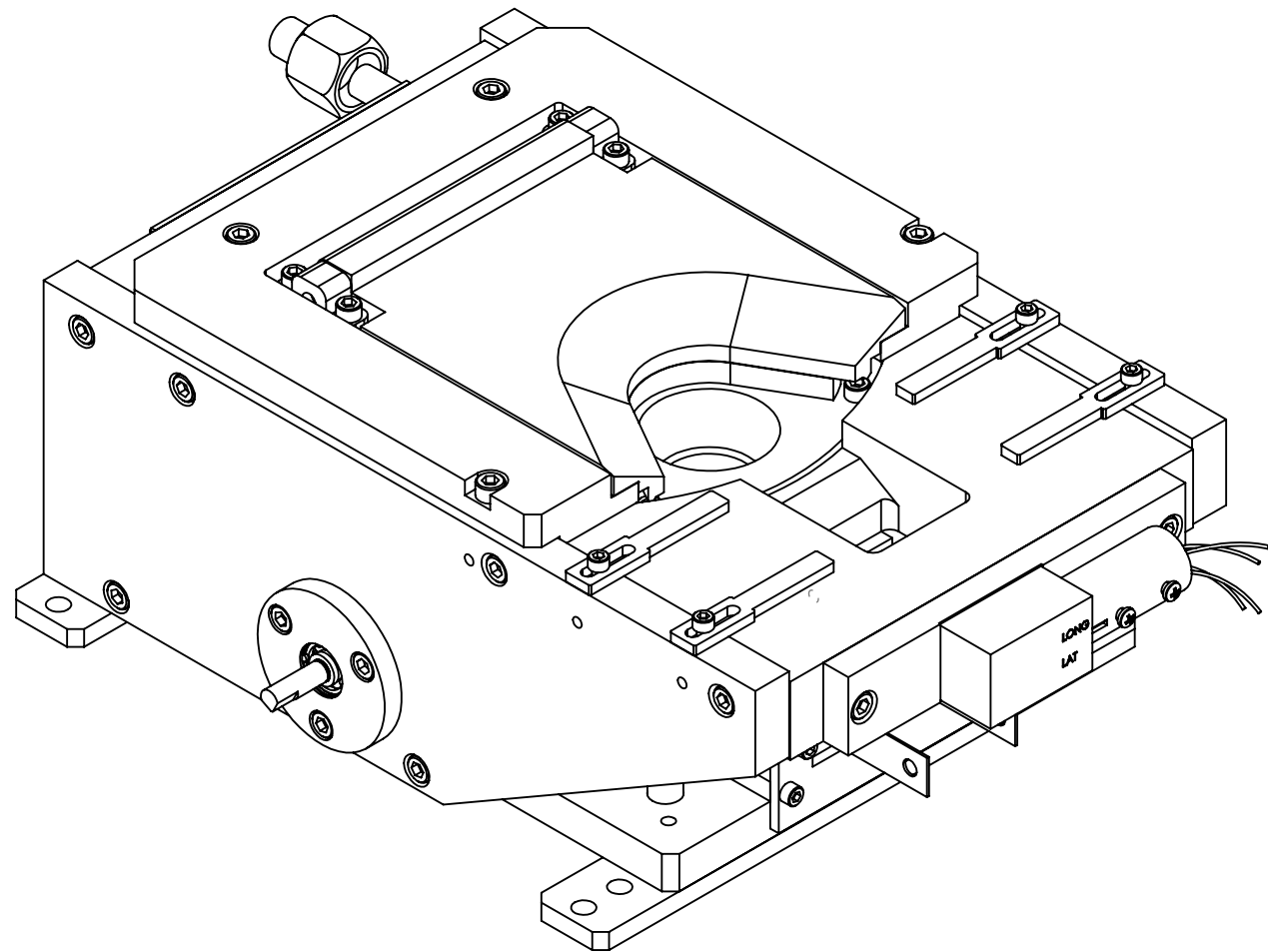
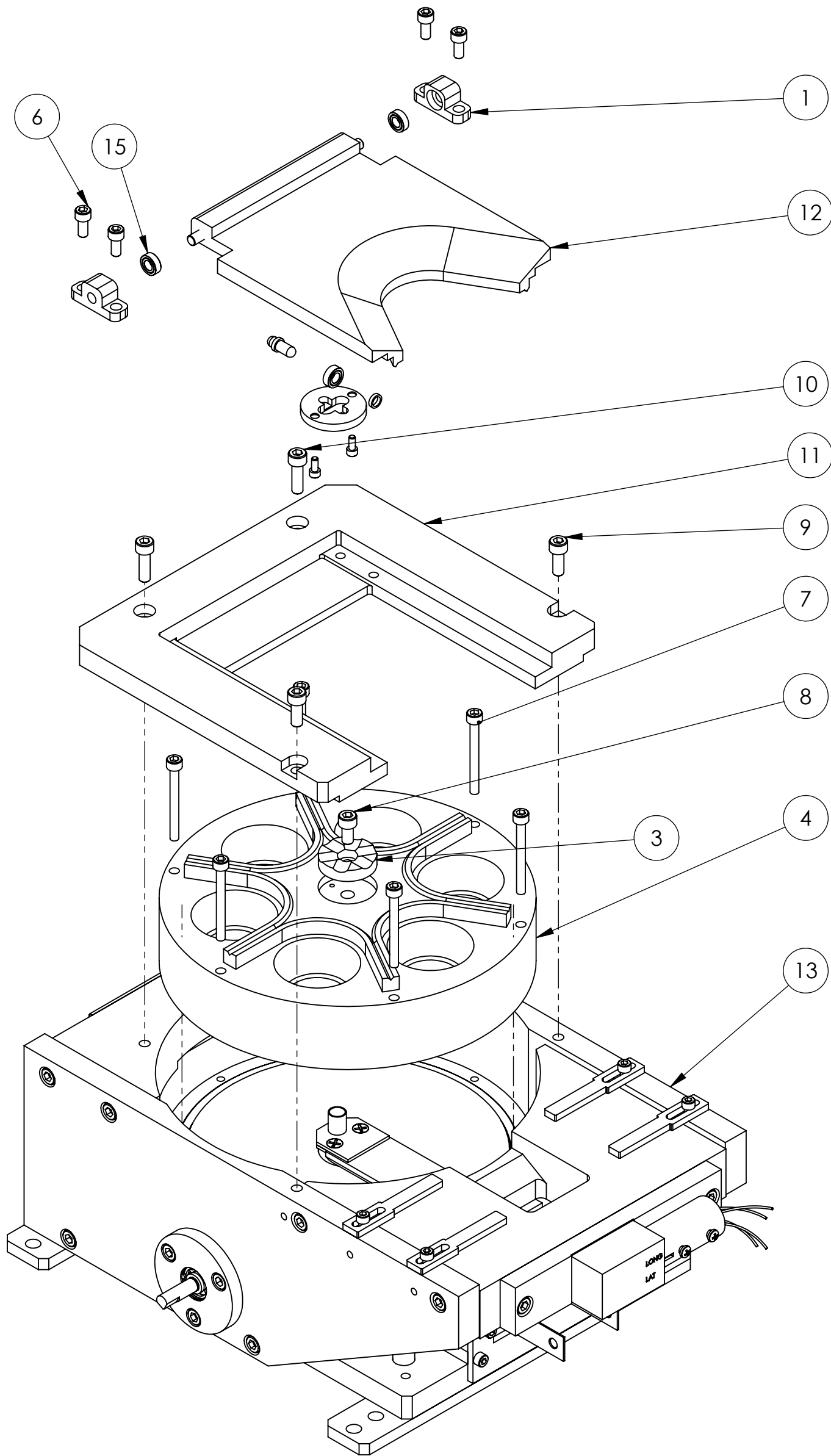
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9911-1 SSC/274-9911-1/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-2	6 POCKET, CAM	1
4	274-0255-8	CRUCIBLE, 6X 15cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-9	COVER, RAW (SSC)	1
12	274-0094-6	COVER, 6 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:	
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C		SCALE 1:2 SHEET 1 of 1		DWG NO. 274-9911-1SSC	REV A



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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

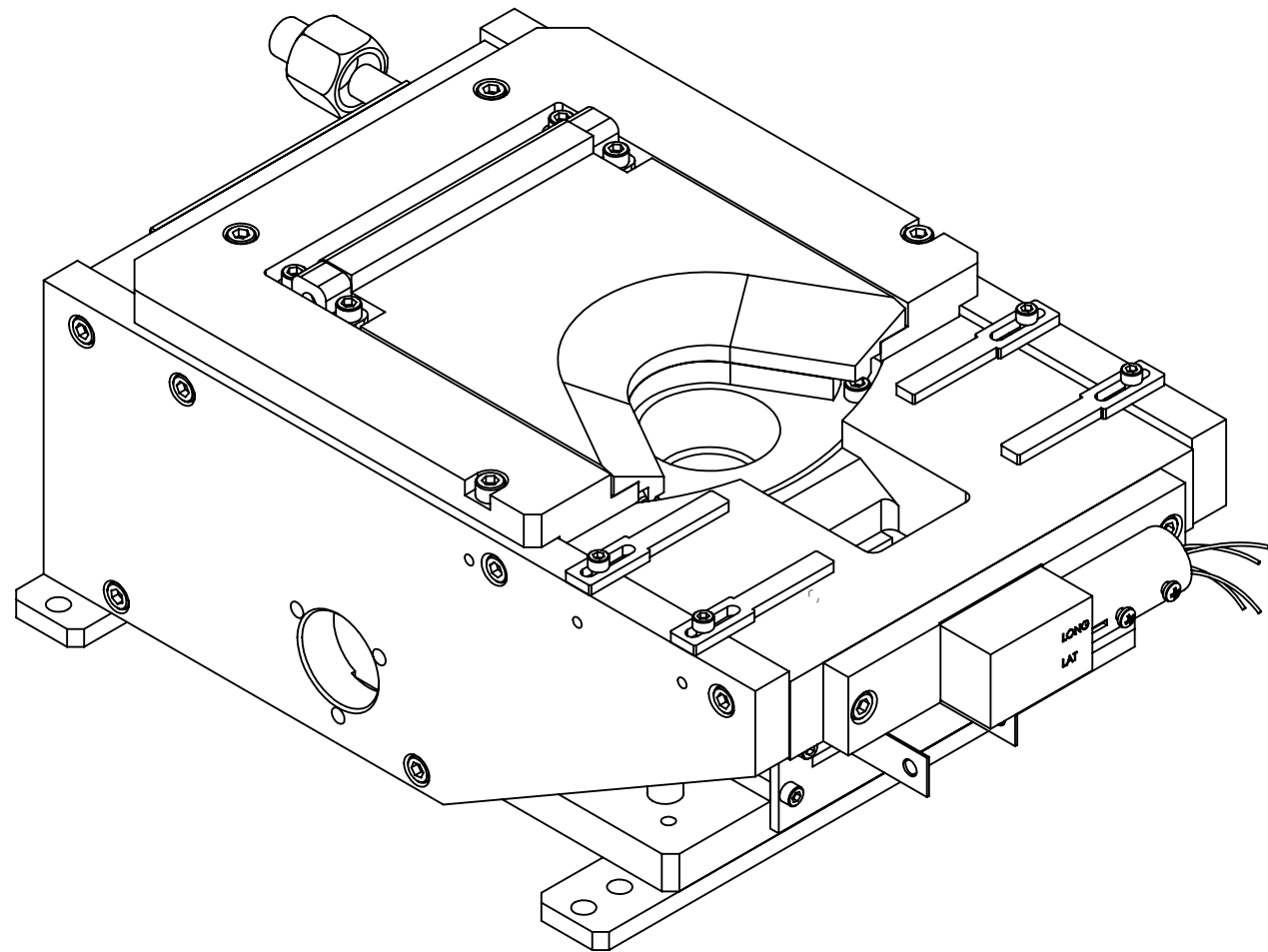
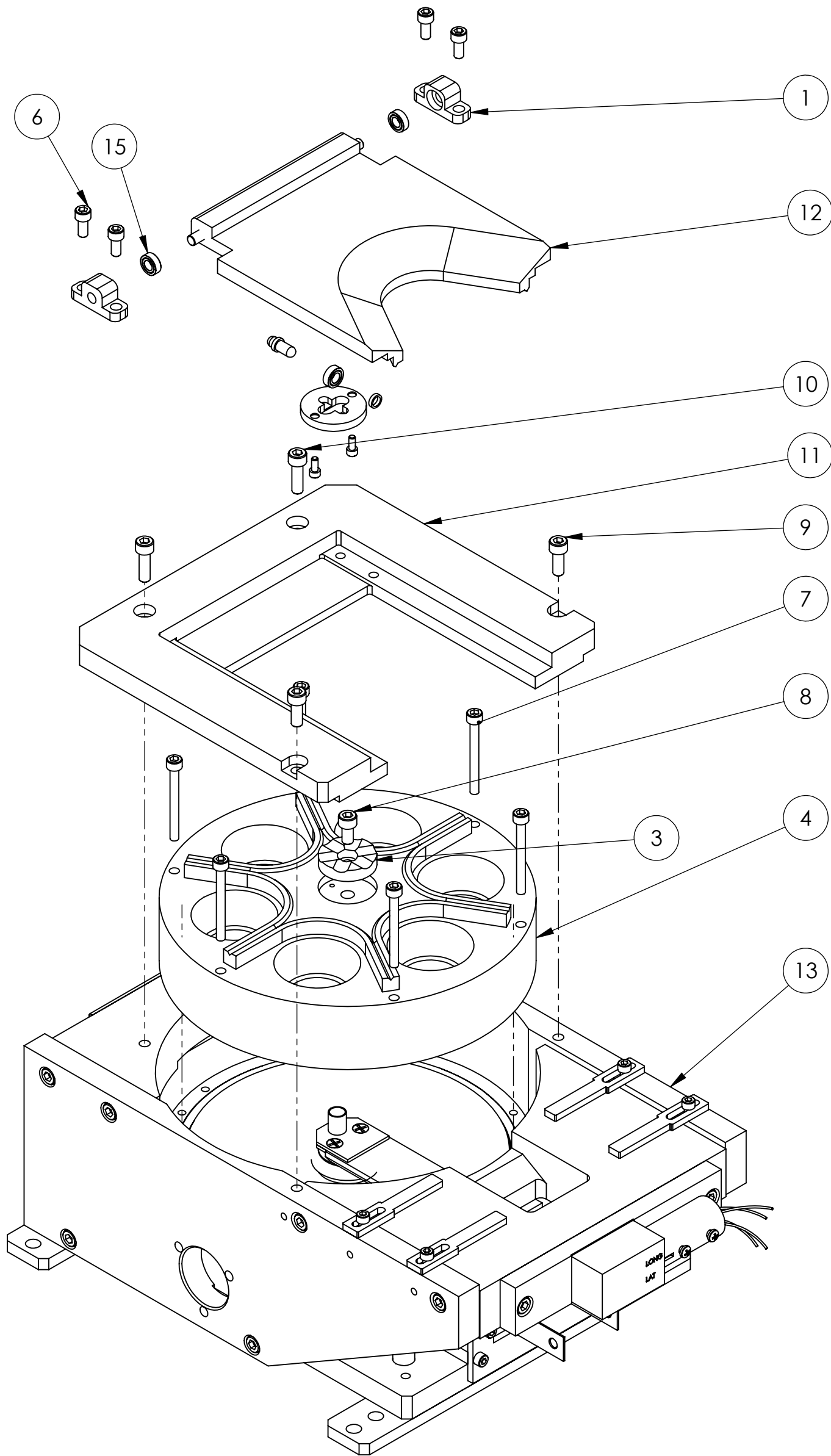
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9912-1 SSC/274-9912-1/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-2	6 POCKET, CAM	1
4	274-0255-8	CRUCIBLE, 6X 15cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	6
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-9	COVER, RAW (SSC)	1
12	274-0094-6	COVER, 6 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M.	<b>TELEMARK</b> telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:	
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C		SCALE 1:2 SHEET 1 of 1		DWG NO. 274-9912-1SCC	REV A



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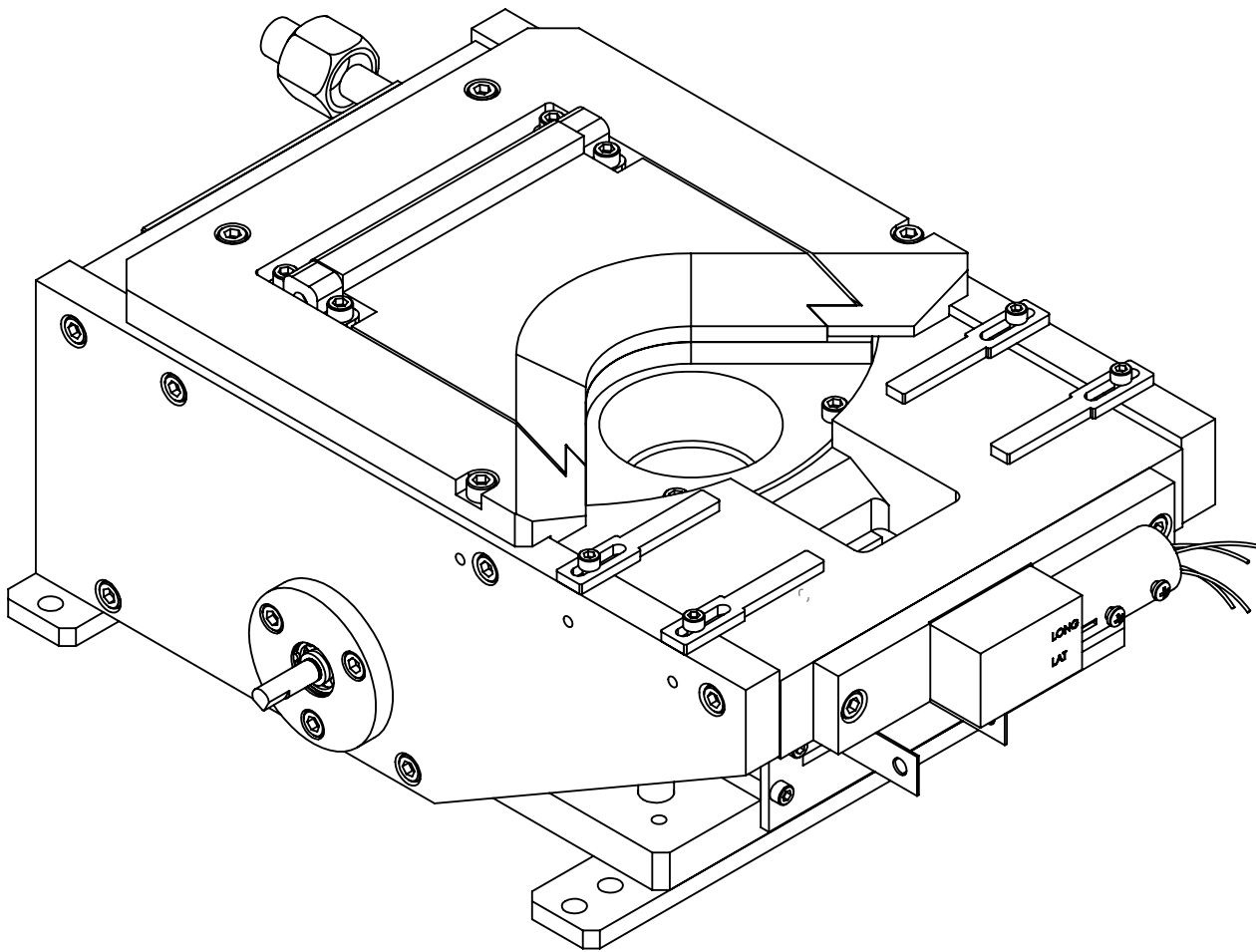
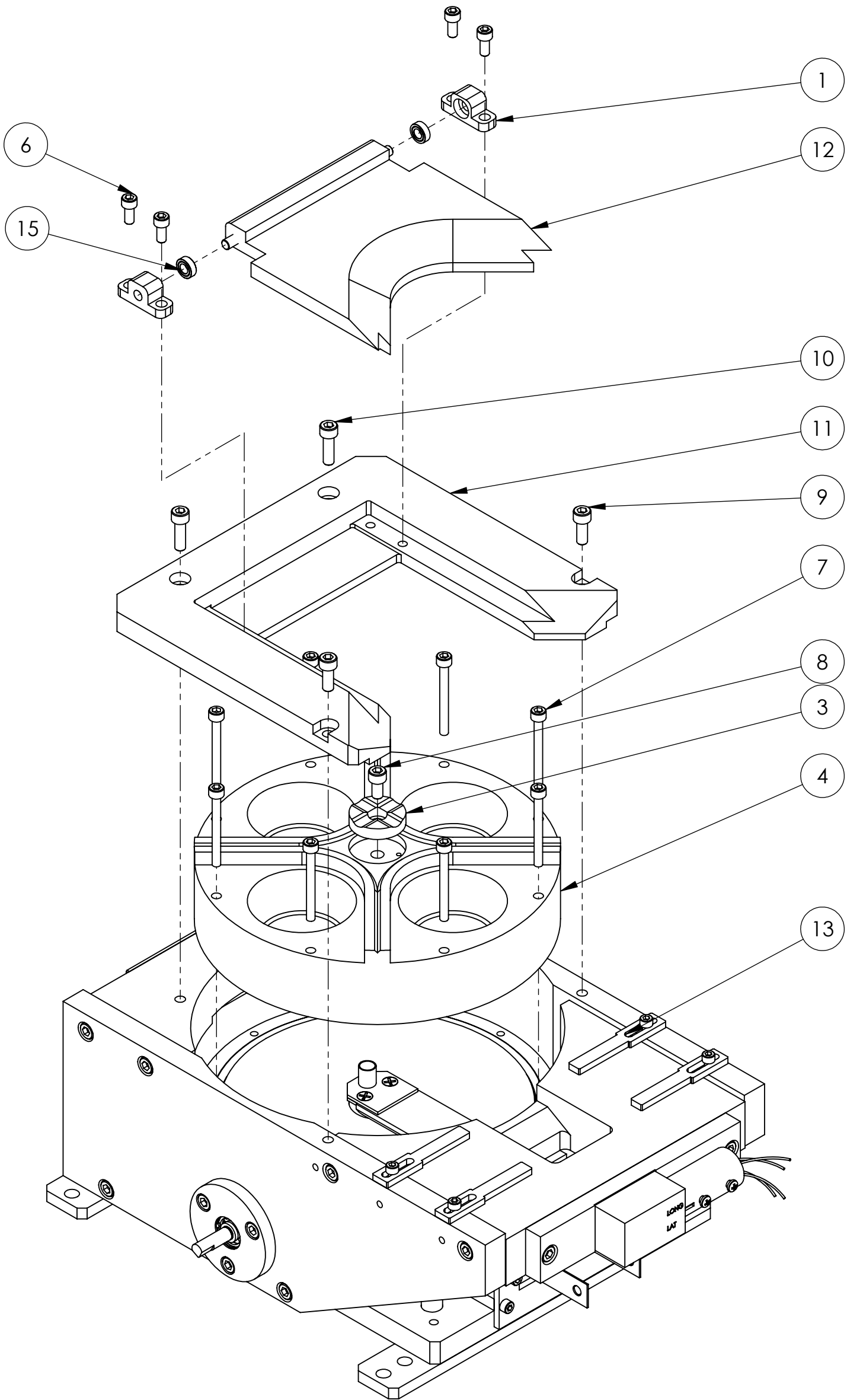
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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A1	UPDATE	PWF	8/16/2012

NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW



ITEM NO.	PART NUMBER	DESCRIPTION	274-9919-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0221-8	CRUCIBLE, 4X 30cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 X 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED		DWG BY		DATE		mo/day/yr		MATERIAL:		B.O.M		<b>TELEMARK</b>		telemark.com	
GLOBAL TOLERANCES		CHECK BY		DATE											
		PROJ ENG		DATE											
		MFG ENG		DATE				FINISH:							
INCHES [mm]															
.X +/- .03 [0.762]															
.XX +/- .01 [0.254]															
.XXX +/- .005 [0.127]															
ANGLES +/- .5°															
SURF FINISH .63 RMS															

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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

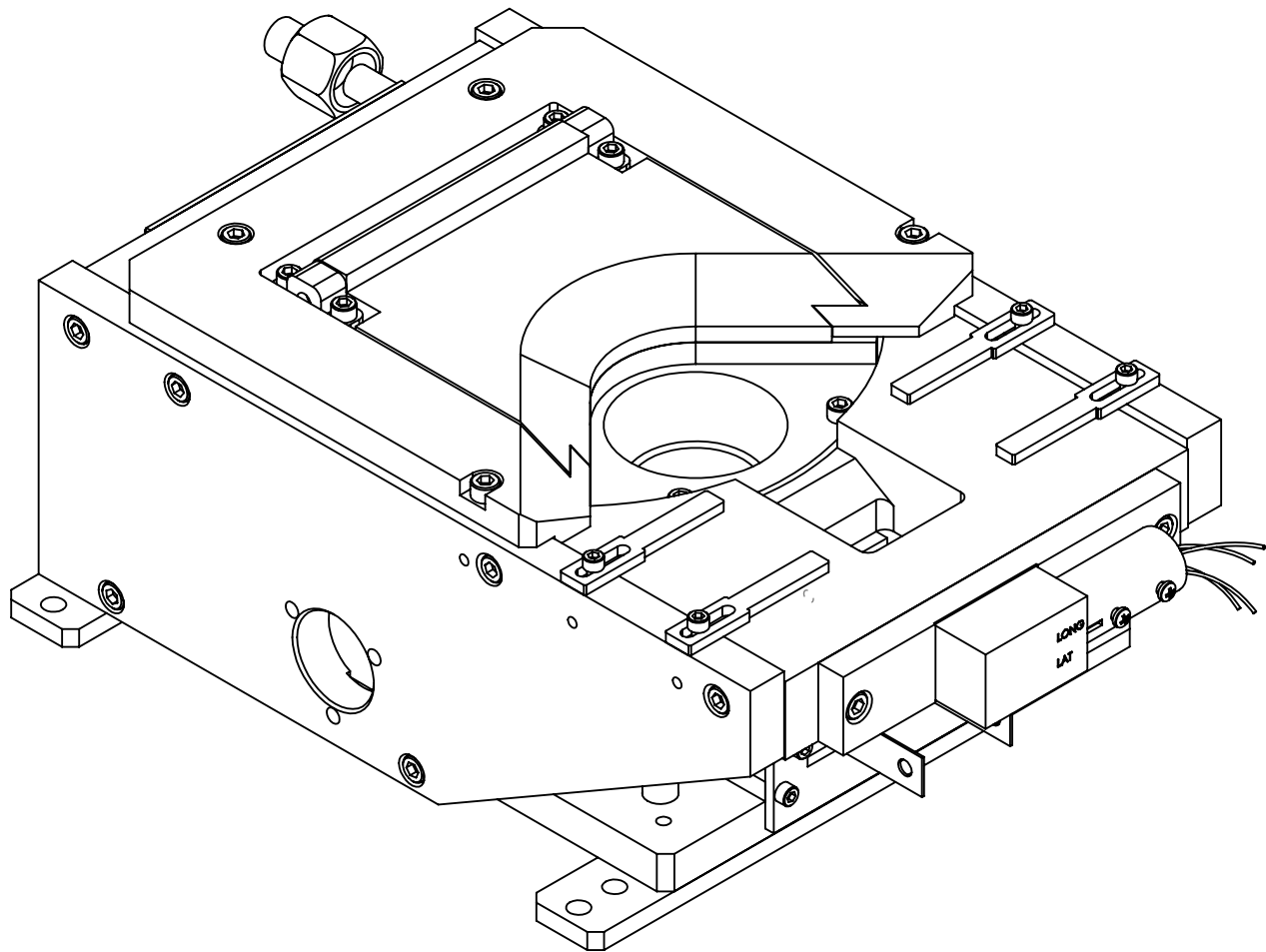
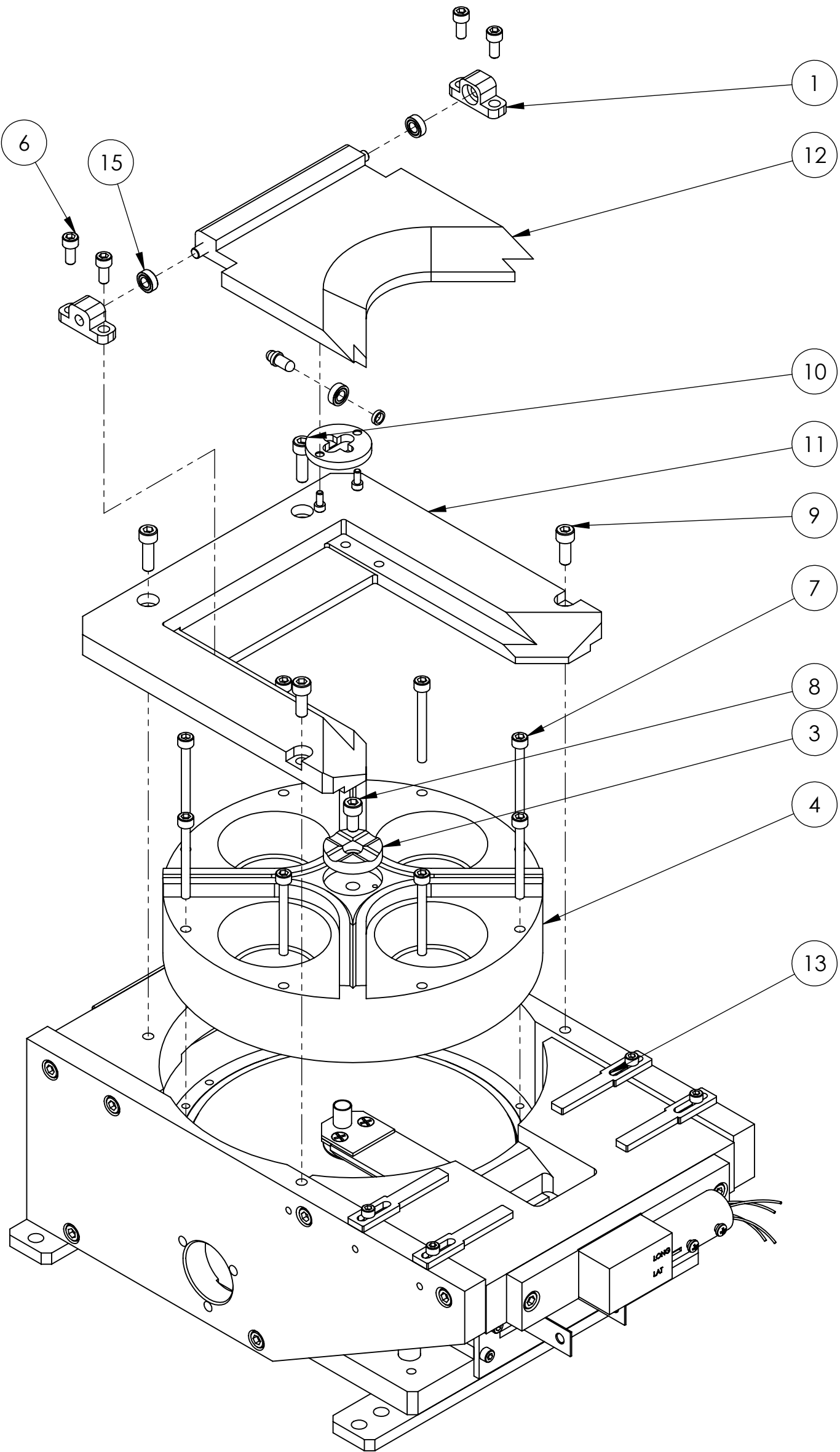
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A1	UPDATE	PWF	8/16/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9920-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0221-8	CRUCIBLE, 4X 30cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 X 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com  <b>MODEL 274-20 EB SOURCE, (SSC) 4 PKT, 30CC, B/D</b>
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127]  ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:  THIRD ANGLE PROJECTION	
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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

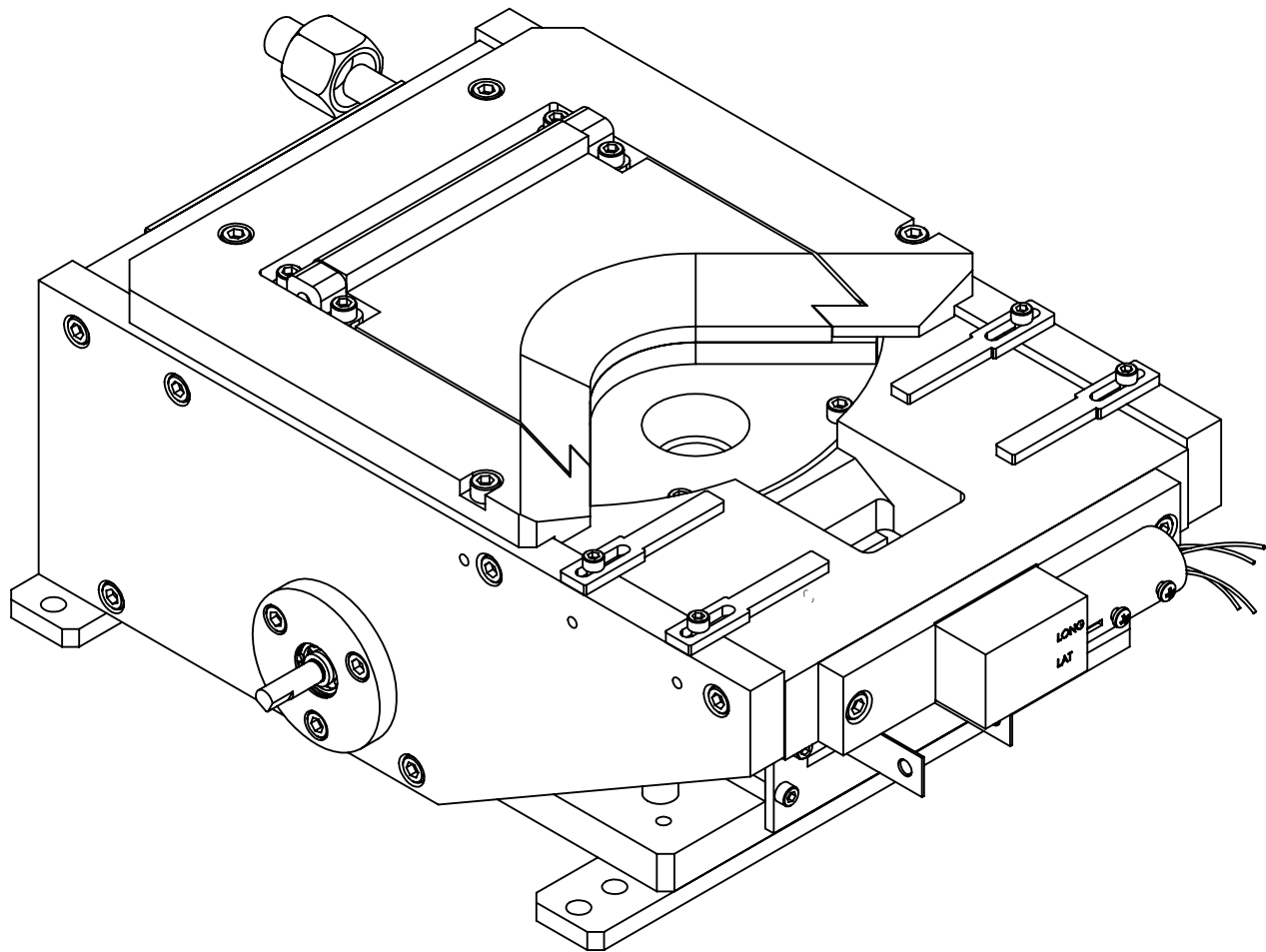
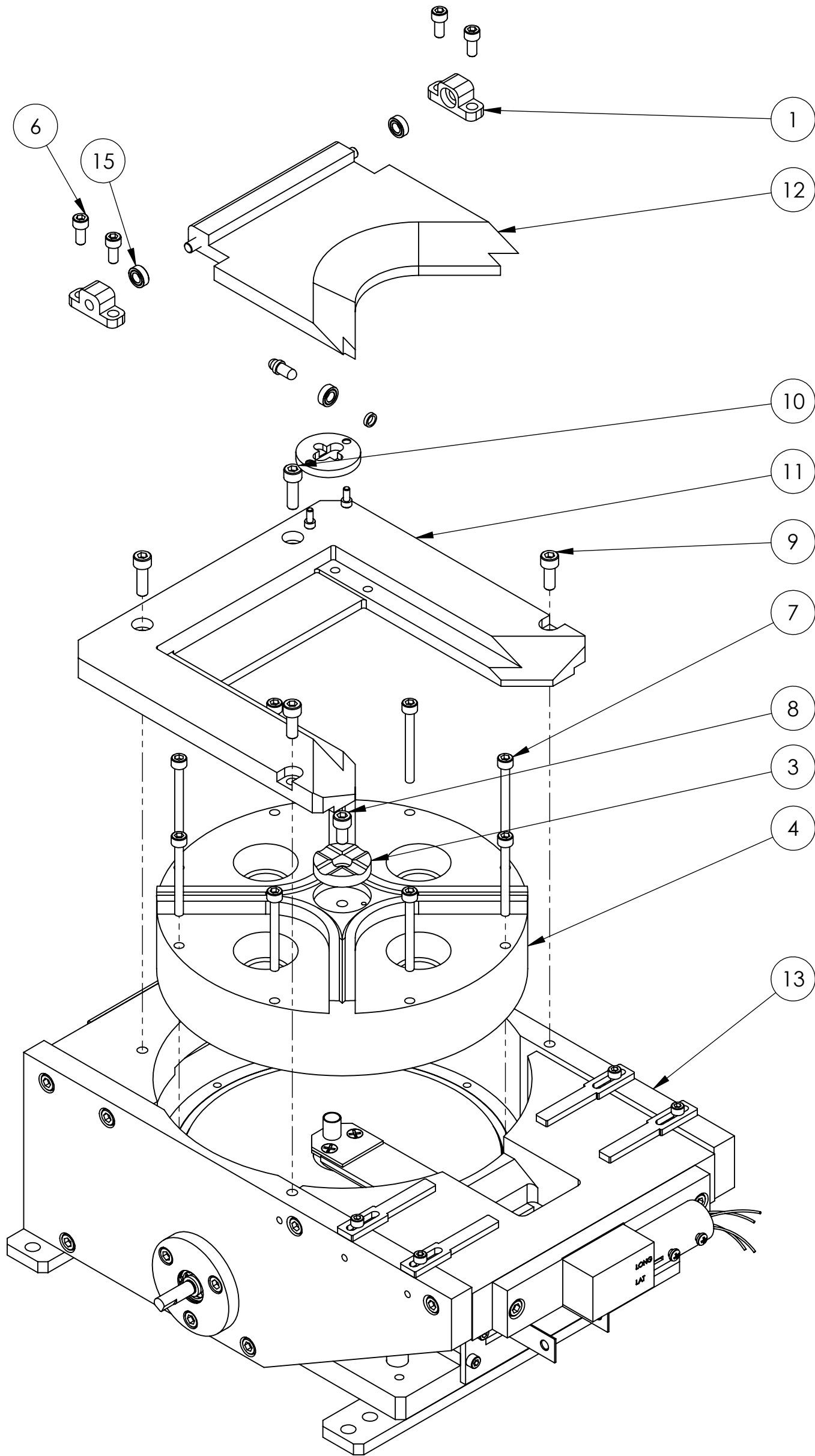
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9927-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0209-8	CRUCIBLE, 4X 7cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED		DWG BY		DATE		mo/day/yr		MATERIAL:		B.O.M		<div>TELEMARK</div> <div>telemark.com</div> <div>MODEL 274-27 EB SOURCE, (SSC)</div> <div>4 PKT, 7CC, S/D</div>									
GLOBAL TOLERANCES		CHECK BY		DATE																	
INCHES [mm]		PROJ ENG		DATE				FINISH:													
.XX +/- .03 [0.762]		MFG ENG		DATE																	
.XXX +/- 0.01 [0.254]				DATE																	
.XXX +/- 0.005 [0.127]																					
ANGLES +/- .5°																					
SURF FINISH .63 RMS																					
		DO NOT SCALE DRAWING						THIRD ANGLE PROJECTION													
		FILE NUMBER - 274-99xx-1																			
		INITIAL PROJECT - 274																			
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																SHEET 1 of 1		274-9927-1 SSC		A	

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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

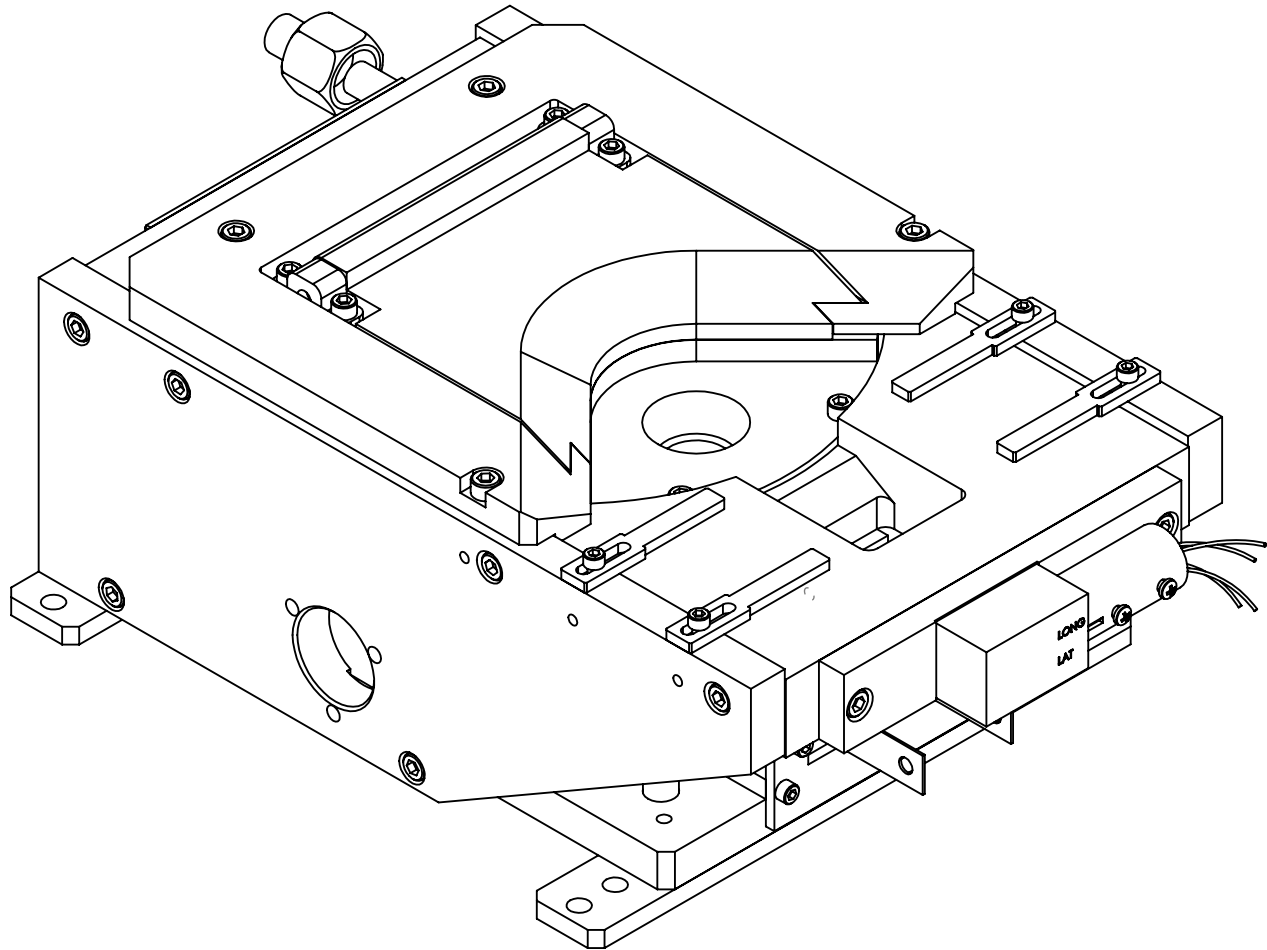
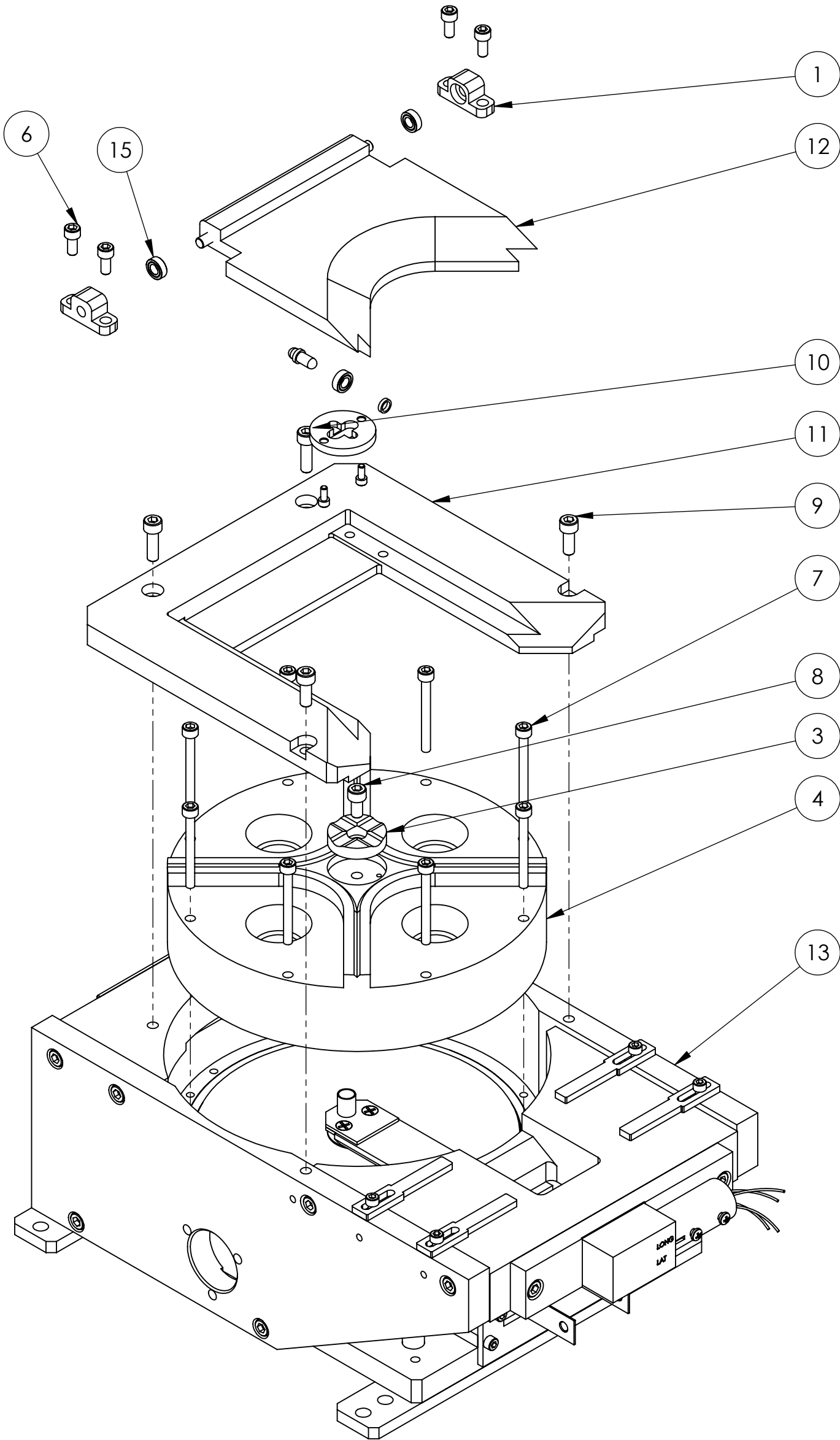
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9928-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0209-8	CRUCIBLE, 4X 7cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com  <b>MODEL 274-28 EB SOURCE, (SSC) 4 PKT, 7CC, B/D</b>
INCHES [mm] X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127]  ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:  THIRD ANGLE PROJECTION	
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NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0133-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

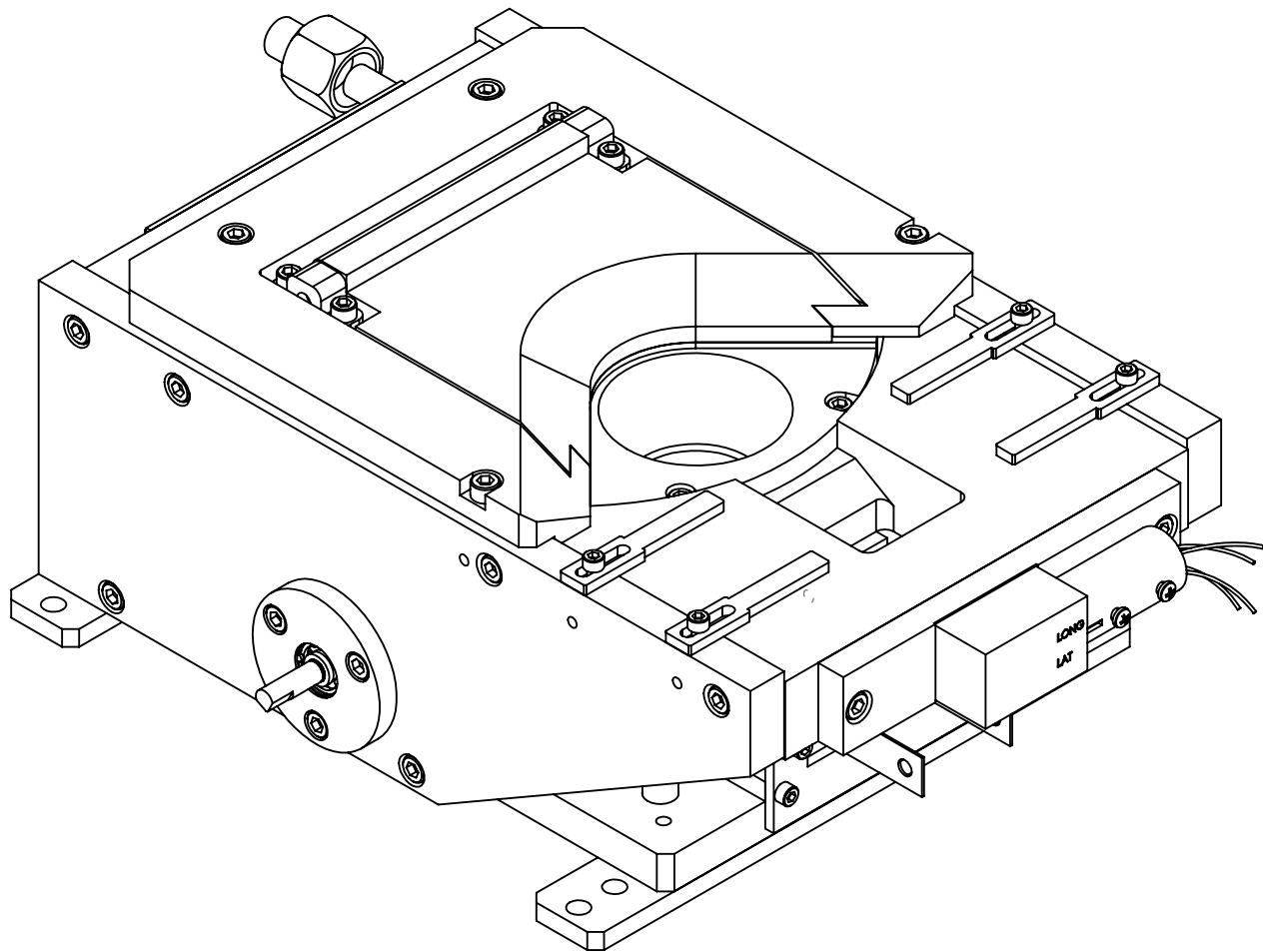
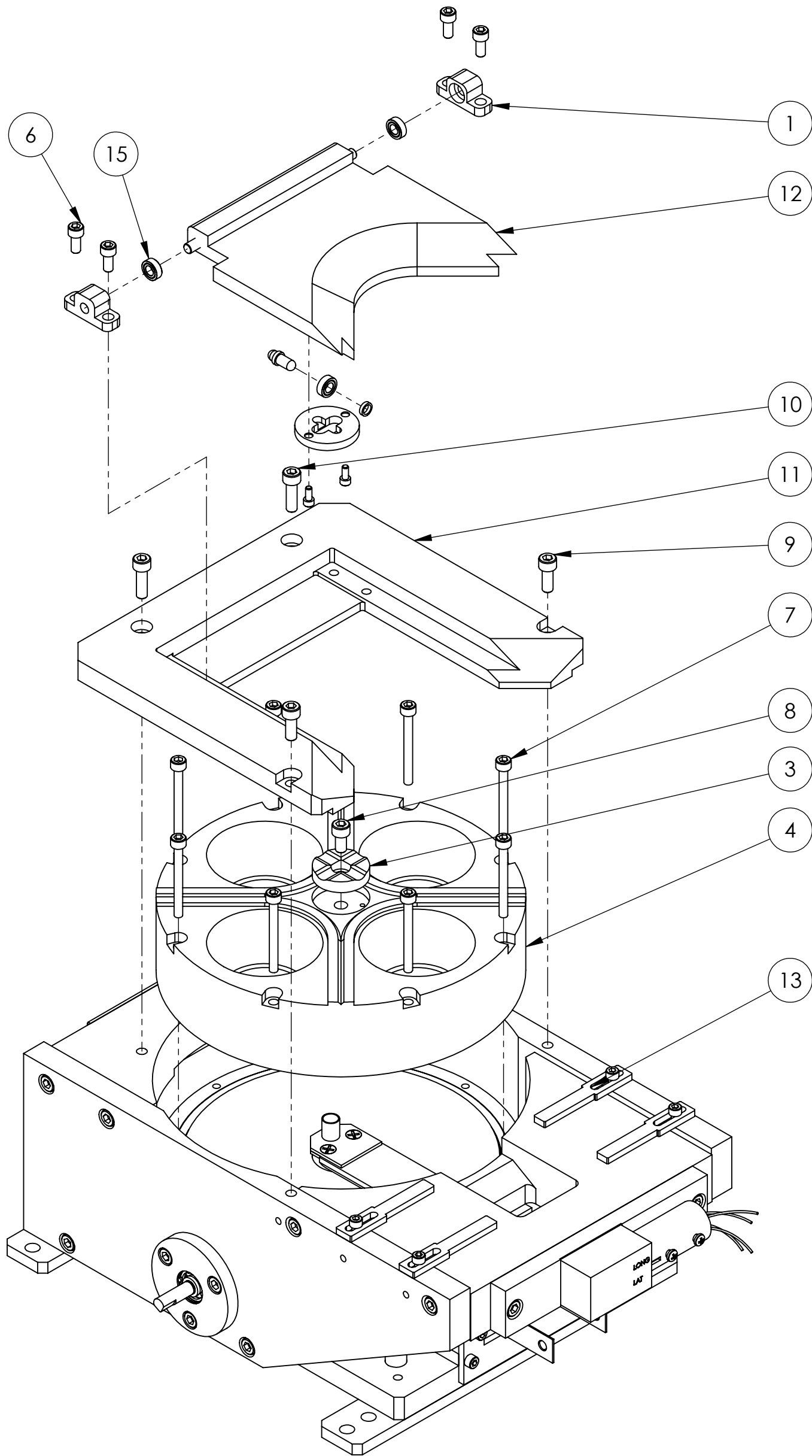
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9961-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0227-8	CRUCIBLE, 4X 40cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0133-1	274 EB SOURCE SUB ASSEMBLY, SIDE DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: B.O.M	<b>TELEMARK</b> telemark.com  <b>MODEL 274-61 EB SOURCE, (SSC) 4 PKT, 40CC, S/D</b>
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127]  ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:  THIRD ANGLE PROJECTION	
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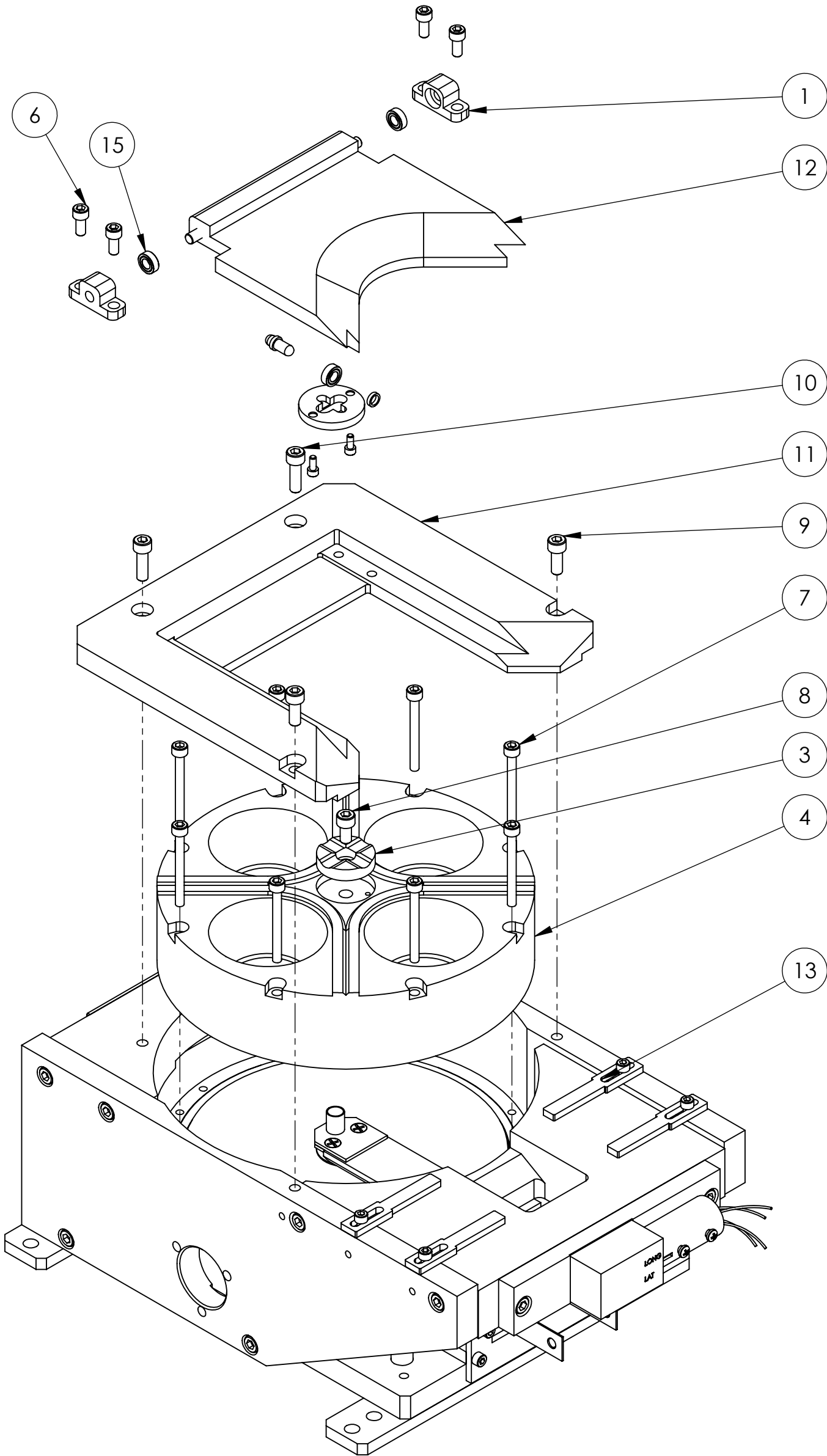
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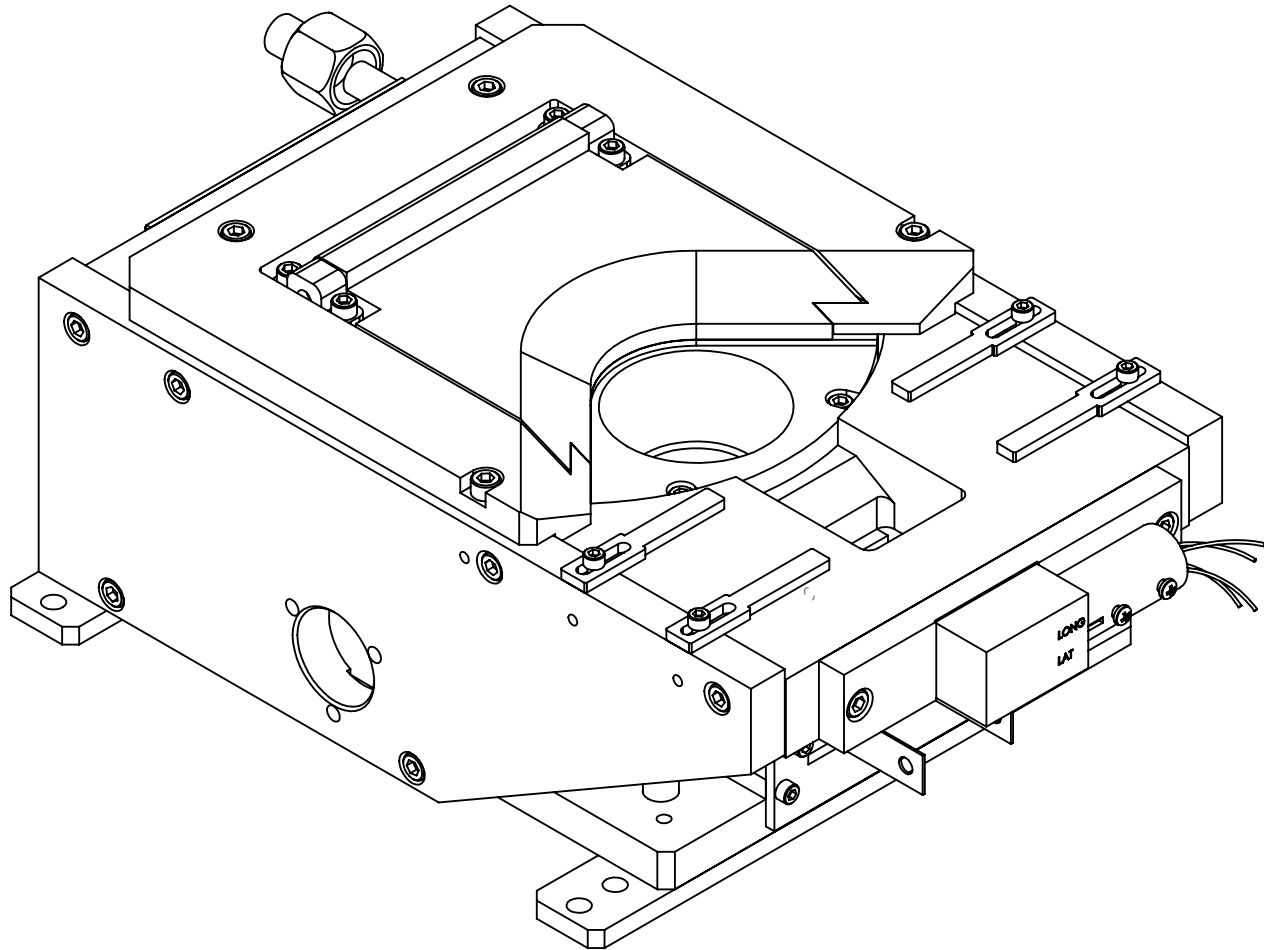
NOTE:  
1. CRUCIBLE AND COVER IN THE STANDARD 274-0135-1  
ASSEMBLY ARE REPLACED WITH PARTS BELOW

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/20/2012

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ITEM NO.	PART NUMBER	DESCRIPTION	274-9962-1 SSC/QTY.
1	271-0037-1	BEARING HOUSING (SSC)	2
2	271-0039-1	BEARING HOLDER	1
3	271-0040-1	4 POCKET, CAM	1
4	274-0227-8	CRUCIBLE, 4X 40cc (SSC)	1
5	271-5999-1	VENTED SCREW, #4-40 X 1/4" SST SHCS	2
6	271-6125-1	VENTED SCREW, #8-32 X 3/8 SST SHCS.	4
7	271-6131-4	VENTED SCREW, #8-32 x 1-1/2" SST. SHCS	8
8	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	1
9	271-6150-1	VENTED SCREW, #10-32 X 1/2" SST. SHCS	2
10	271-6170-1	VENTED SCREW, #10-32 X 5/8" SST. SHCS	2
11	274-0091-6	MAIN COVER, 4 PKT. (SSC)	1
12	274-0093-6	COVER, 4 POCKET (SSC)	1
13	274-0135-1	274 EB SOURCE SUB ASSEMBLY, BOTTOM DRIVE	1
14	528-0068-1	SPACER .063	1
15	528-0069-1	BEARING	3
16	568-0158-1	BEARING SHAFT	1

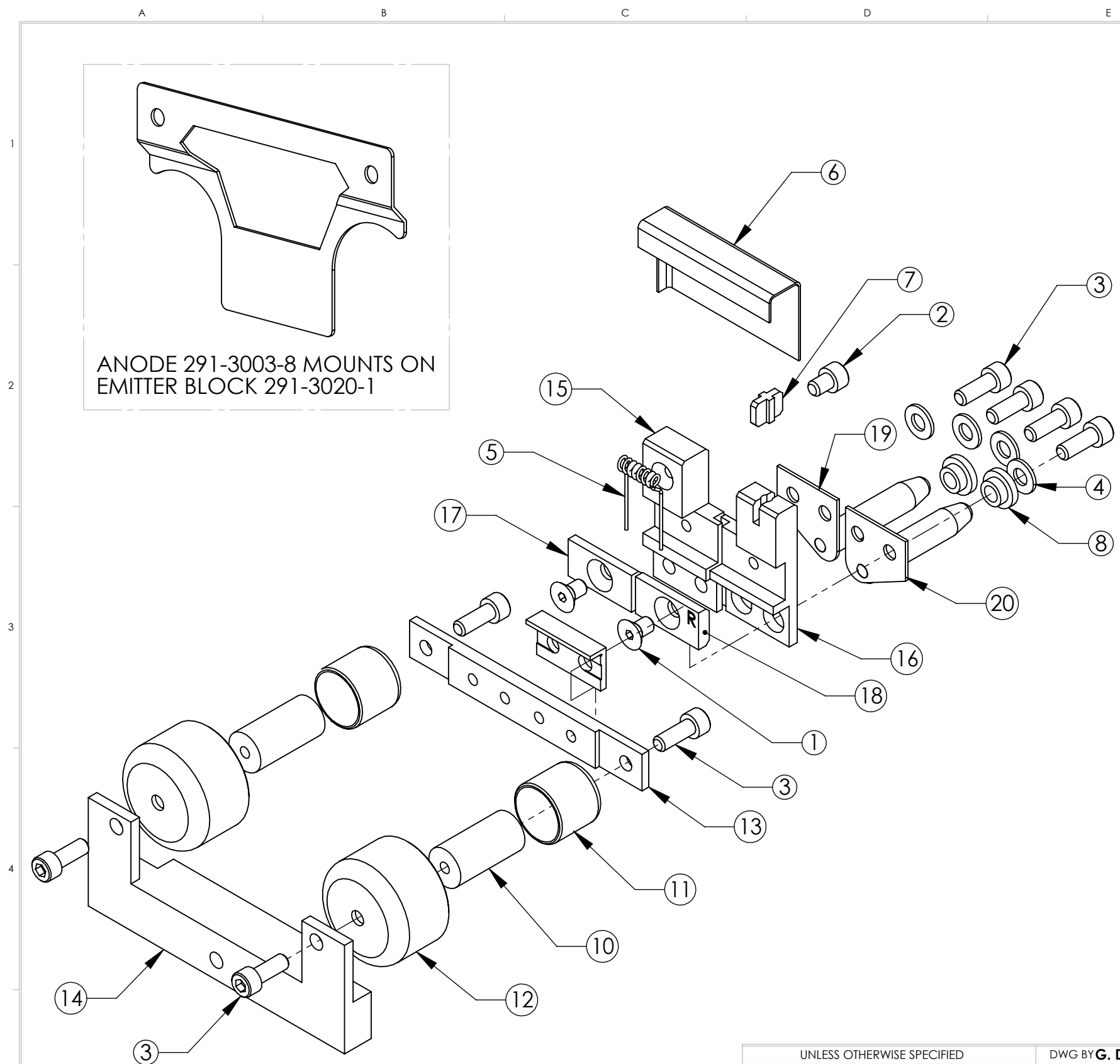
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UNLESS OTHERWISE SPECIFIED		DWG BY		DATE	mo/day/yr	MATERIAL:	B.O.M	<div>TELEMARK</div>	telemark.com		
GLOBAL TOLERANCES		CHECK BY		DATE		FINISH:					
		PROJ ENG		DATE							
		MFG ENG		DATE							
INCHES [mm]		DO NOT SCALE DRAWING				THIRD ANGLE PROJECTION					
.X +/- .03 [0.762]		FILE NUMBER		- 274-99xx-1							
.XX +/- 0.01 [0.254]		INITIAL PROJECT		- 274							
.XXX +/- 0.005 [0.127]											
ANGLES +/- .5°											
SURF FINISH .63 RMS											
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C	SCALE	1:2	DWG NO.	274-9962-1 SSC						REV	A
	SHEET	1 of 1									



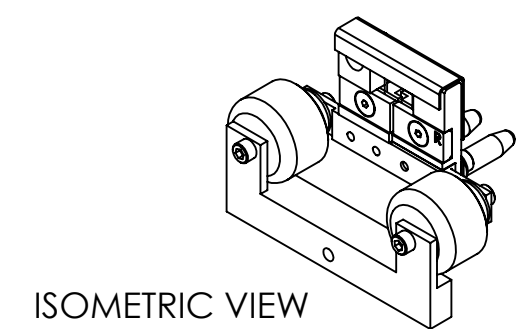
# Optional Assemblies

## Arc Suppression



ANODE 291-3003-8 MOUNTS ON  
EMITTER BLOCK 291-3020-1

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	12/8/2014



ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD, Ti	2
2	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
3	271-6050-5	SCREW, #6-32 X 3/8" SHCS, Ti	8
4	271-6242-1	FLAT WASHER, #6 SST	4
5	273-0001-1	FILAMENT, 7-1/2 TURN	1
6	273-0004-2	BEAM FORMER	1
7	291-3005-1	INSULATOR, CROSS	1
8	291-3006-1	INSULATOR, COLLAR	2
9	291-3008-1	L INSULATOR	1
10	291-3010-1	HV INSULATOR	2
11	291-3011-1	HV SHIELD, AS	2
12	291-3013-1	HV SHIELD	2
13	291-3017-2	MOUNTING BRACKET, AS	1
14	291-3018-1	EMITTER SUPPORT BRACKET	1
15	291-3031-1	CATHODE BLOCK, LEFT	1
16	291-3032-1	CATHODE BLOCK, RIGHT	1
17	291-3033-3	FILAMENT CLAMP, LEFT	1
18	291-3033-4	FILAMENT CLAMP, RIGHT	1
19	291-3035-1	EMITTER BUS BAR ASSY., LEFT	1
20	291-3036-1	EMITTER BUS BAR ASSY., RIGHT	1

UNLESS OTHERWISE SPECIFIED  
GLOBAL TOLERANCES

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

ANGLES +/- .5°  
SURF FINISH 63 RMS

DWG BY **G. DION** DATE **12-8-2014**  
CHECK BY \_\_\_\_\_ DATE \_\_\_\_\_  
PROJ ENG \_\_\_\_\_ DATE \_\_\_\_\_  
MFG ENG \_\_\_\_\_ DATE \_\_\_\_\_  
DO NOT SCALE DRAWING

FILE NUMBER - 291-3151-3  
INITIAL PROJECT -

MATERIAL:  
  
FINISH:  
  
THIRD ANGLE PROJECTION

**TELEMARK**  
telemark.com

**EMITTER ASSEMBLY, AS 271  
273, 274, 276, 279, 294, 296**

**B**

SCALE 1:1  
SHEET 1 of 1

DWG NO.  
**291-3151-3**

REV  
**A**

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NOTE:  
1. ITEM 7 IS 274-0133-2 OR 274-0135-2 WHICH IS THE SAME AS THE STANDARD 274 ASSEMBLY EXCEPT THE BASE PLATE IS PART NUMBER 274-0112-4 AND ONLY ONE MOUNTING STRAP PART NUMBER 271-0088-1 IS USED.  
2. ITEM 10 IS PART OF THE EMITTER ASSEMBLY PART NUMBER 291-3150-2.  
3. ITEM 16 IS THE STANDARD FEEDTHRU, MANY OTHER OPTIONS ARE AVAILABLE.

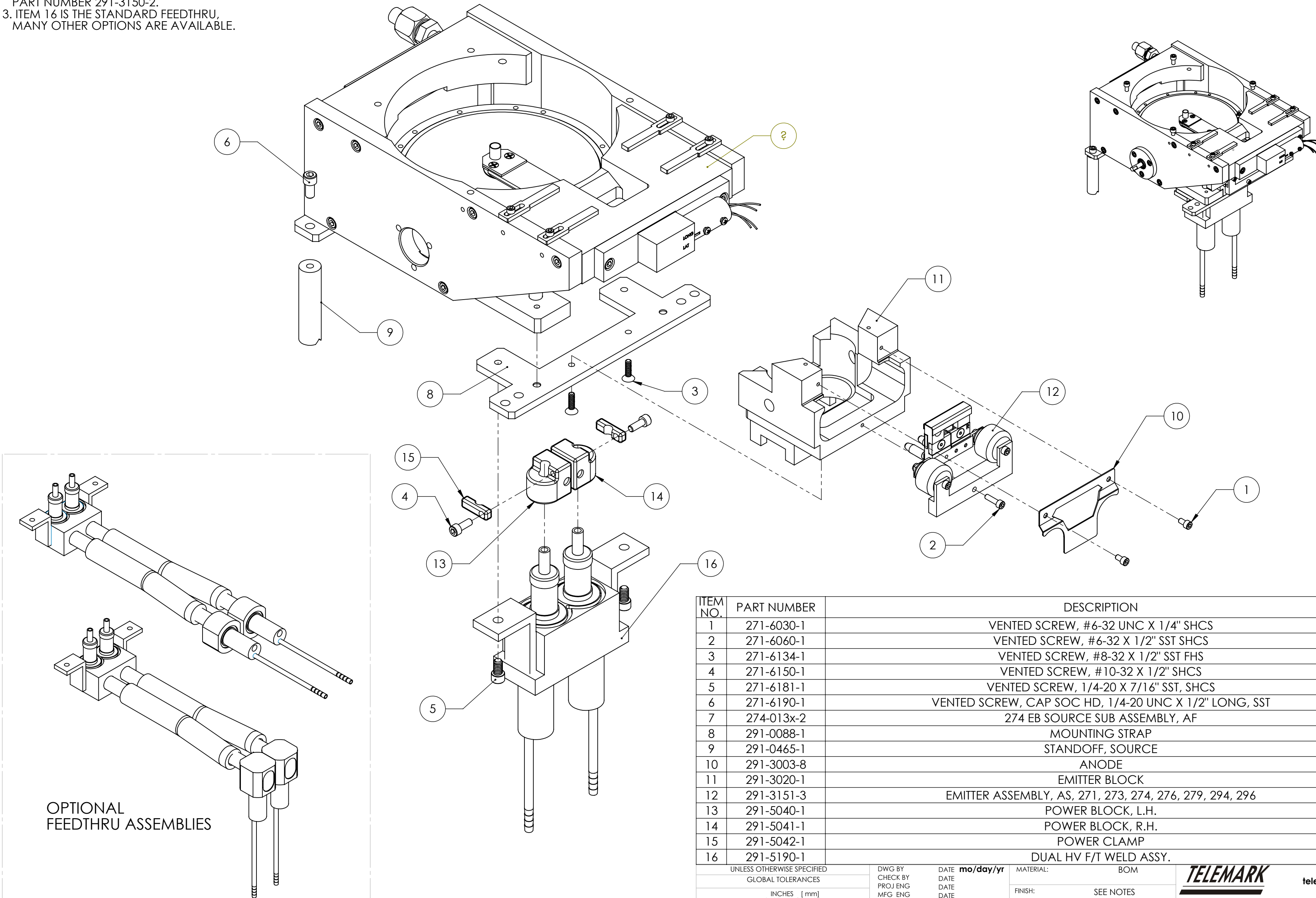
		A1	RELEASE	PWF	10/12/2010
		A2	UPDATE	PWF	8/15/2012
990706		B	CHANGED EMITTER FROM 291-3150-2 TO 291-3151-3 & SCREW FROM 271-6190-1 TO 271-6181-1	GPD	5/27/2016

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OPTIONAL  
FEEDTHRU ASSEMBLIES

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6030-1	VENTED SCREW, #6-32 UNC X 1/4" SHCS	2
2	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS	1
3	271-6134-1	VENTED SCREW, #8-32 X 1/2" SST FHS	2
4	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	2
5	271-6181-1	VENTED SCREW, 1/4-20 X 7/16" SST, SHCS	2
6	271-6190-1	VENTED SCREW, CAP SOC HD, 1/4-20 UNC X 1/2" LONG, SST	2
7	274-013x-2	274 EB SOURCE SUB ASSEMBLY, AF	1
8	291-0088-1	MOUNTING STRAP	1
9	291-0465-1	STANDOFF, SOURCE	2
10	291-3003-8	ANODE	1
11	291-3020-1	EMITTER BLOCK	1
12	291-3151-3	EMITTER ASSEMBLY, AS, 271, 273, 274, 276, 279, 294, 296	1
13	291-5040-1	POWER BLOCK, L.H.	1
14	291-5041-1	POWER BLOCK, R.H.	1
15	291-5042-1	POWER CLAMP	2
16	291-5190-1	DUAL HV F/T WELD ASSY.	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: BOM	<div>TELEMARK</div> <div>telemark.com</div>
INCHES [mm] X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127]  ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING		FINISH: SEE NOTES	
FILE NUMBER - 274-5175-1 INITIAL PROJECT -		THIRD ANGLE PROJECTION		<div>274 ARC SUPPRESSION OPTION</div>	
					

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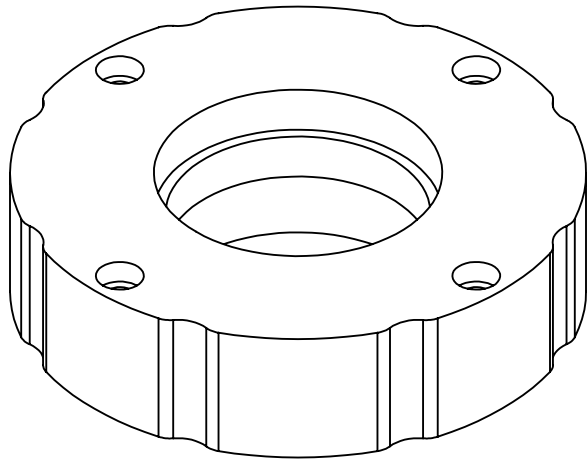


# Optional Assemblies

**Indexer In-Vacuum In-Pocket Switch**



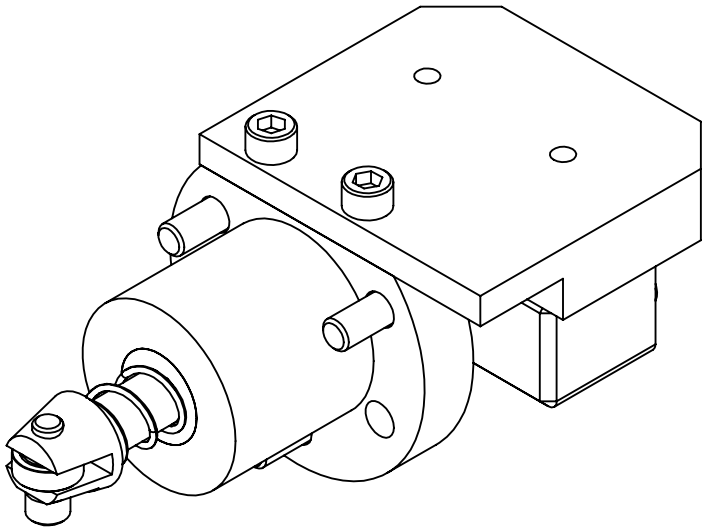
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	9/4/2014
		B	REVISED HUB REQUIRED PART NUMBERS	GPD	10/14/2014
		C	P/N FROM 271-6018-9 TO 271-6004-9	GPD	10/27/2014
		D	NEW DRAWING	PWF	1/31/2018
990824		D1	REVISED 274-0301-1	GPD	4/16/2018
990858		E	ADDING 274-0300-7	GPD	4/2/2019



ROTATION HUB  
SEE TABLE AND NOTE BELOW  
FOR CORRECT HUB FOR ASSEMBLY

NEW SOURCE OPTION P/N	UPGRADE KIT P/N	NUMBER OF POCKETS	HUB REQUIRED *
274-0300-4	274-0300-4-HP	4	271-0038-4
274-0300-6	274-0300-6-HP	6	274-0038-6
274-0300-7	274-0300-7-HP	TROUGH/PAN	271-0038-7
274-0300-8	274-0300-8-HP	8	271-0038-8

**\*NOTE: FOR ROTATION ASSEMBLY REFER TO DRAWING  
274-0113-1. CHANGE STANDARD HUB P/N  
271-0038-1 WITH HUB REQUIRED ABOVE  
DEPENDING ON NUMBER OF POCKETS.**

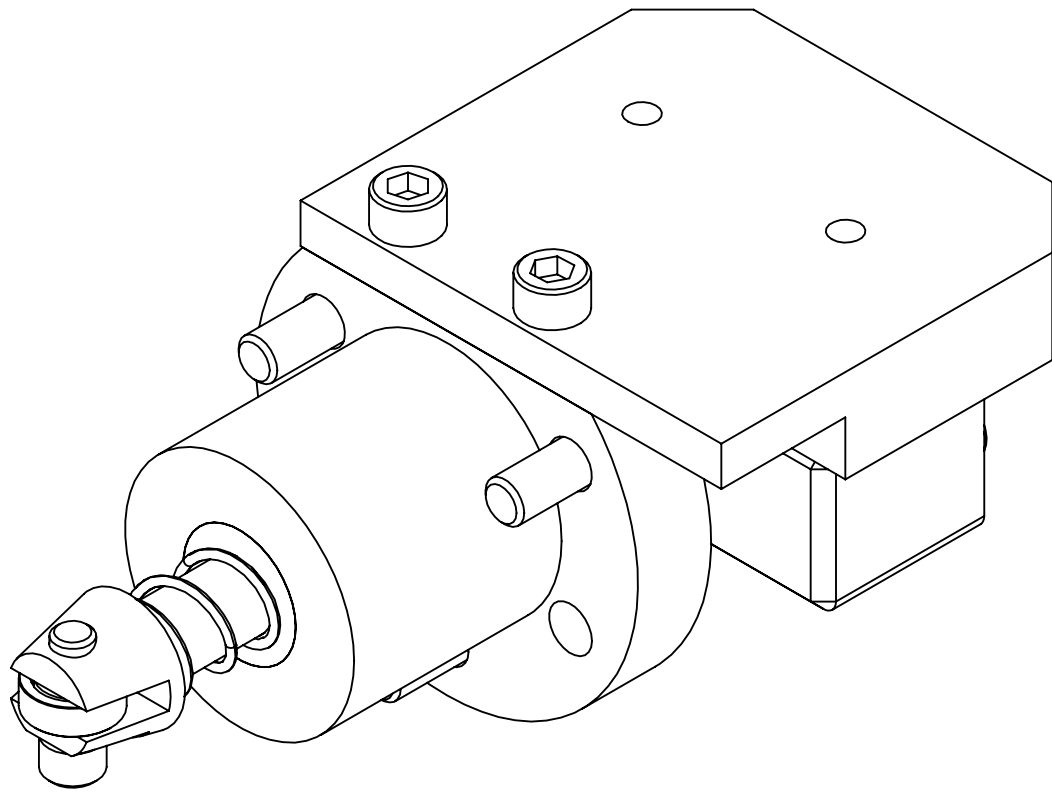
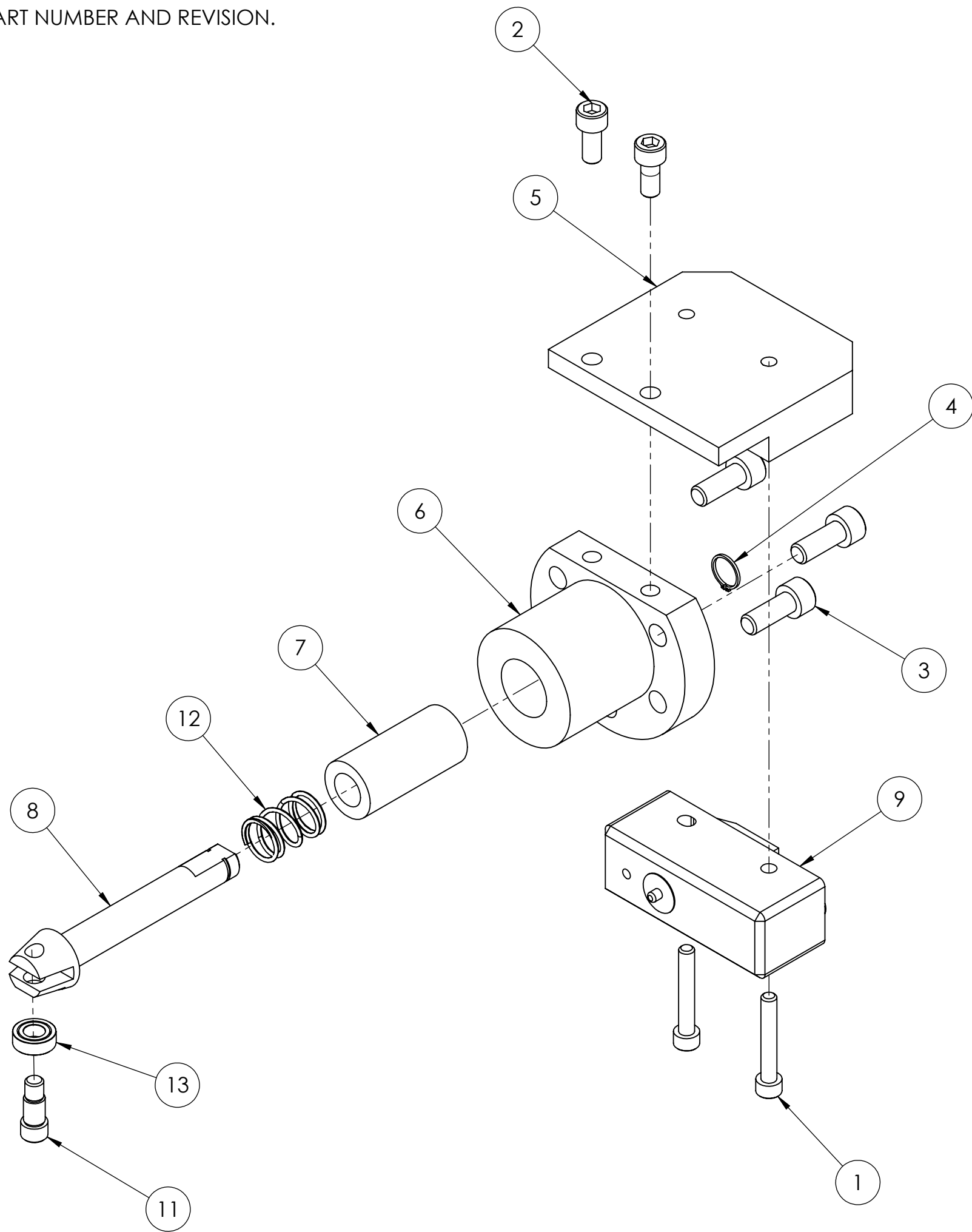


274-0300-1

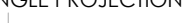
UNLESS OTHERWISE SPECIFIED		DWG BY		DATE	MATERIAL:	
GLOBAL TOLERANCES		CHECK BY		DATE		
		PROJ ENG		DATE		
		MFG ENG		DATE	FINISH: SEE NOTES	
		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		
		FILE NUMBER -				
		INITIAL PROJECT -				

- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE BURRS & BREAK ALL SHARP EDGES  
.005-.015 RADIUS OR CHAMFER.
  2. ALL SURFACES  $\sqrt{63}$
  3. BAG WITH PART NUMBER AND REVISION.

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/9/2017
990824		A1	REVISED 274-0301-1	GPD	4/16/2018
990880		B	P/N FROM 271-6004-9 TO 271-6073-9	GPD	3/20/2020

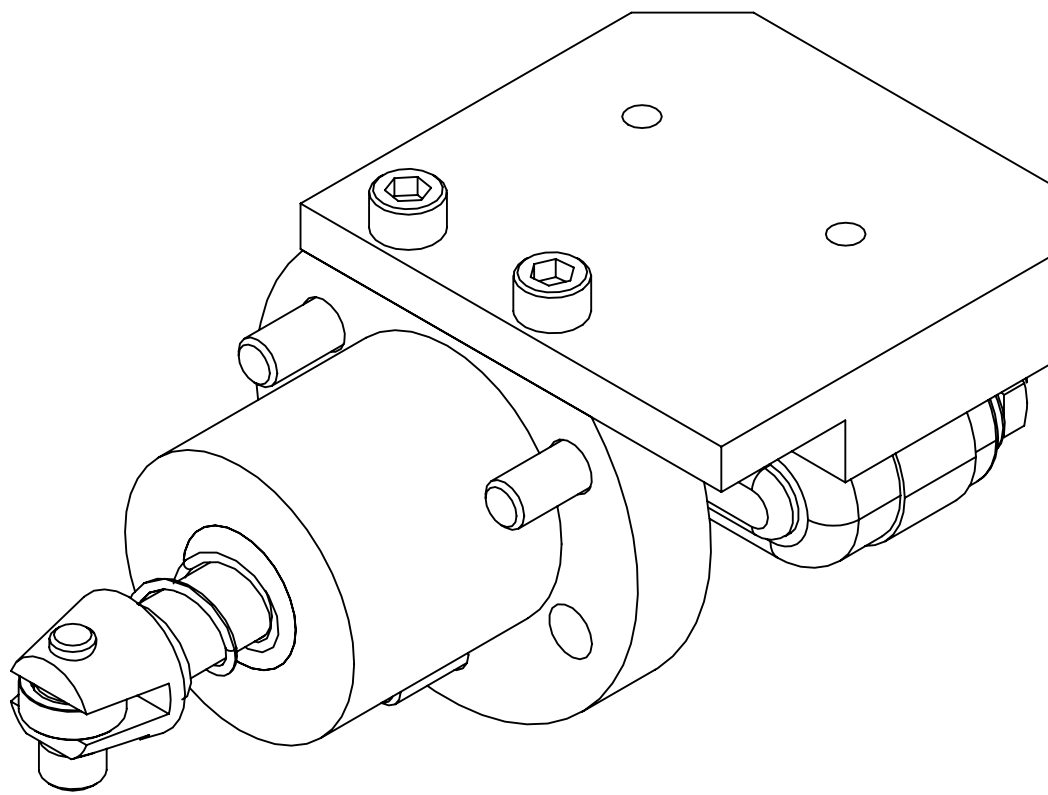
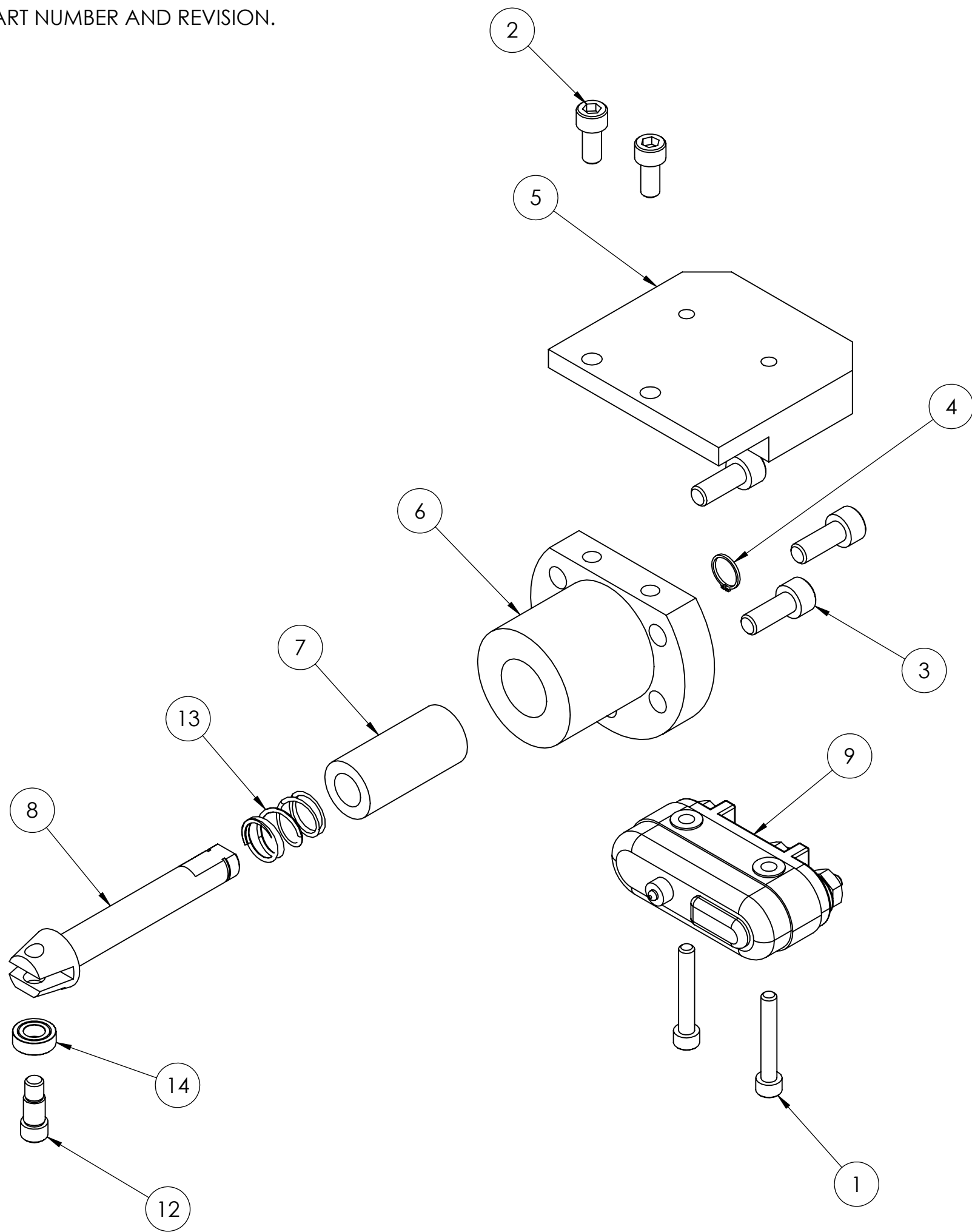


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6073-9	SCREW, CAP SOC HD, #6-32 UNC X 7/8" LONG, SST	2
2	271-6125-1	VENTED SCREW, #8-32 UNC X 3/8" LG, SST, SHCS	2
3	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	3
4	271-6281-3	RETAINING RING, EXTERNAL, 5/16", SST	1
5	274-0301-1	MOUNTING BLOCK, CRUCIBLE SENSOR	1
6	274-0302-1	HOUSING, CRUCIBLE SENSOR	1
7	274-0303-1	INSULATOR, CRUCIBLE SENSOR	1
8	274-0304-1	SHAFT, CRUCIBLE SENSOR	1
9	274-0305-9	MICRO SWITCH, SPDT, PIN PLUNGER, MODIFIED	1
10	274-0306-1	SHOULDER SCREW, MODIFIED	1
11	274-0307-1	SPRING, COMPRESSION, .42 O.D. X .62 LONG X .038 WIRE DIAMETER	1
12	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SHIELDED, SST	1
13	396-9060-1	CABLE, IN-VAC HOME	1

UNLESS OTHERWISE SPECIFIED		DWG BY <b>G. DION</b> DATE <b>9-4-2014</b>	MATERIAL: SEE PARTS LIST	<div><b>TELEMARK</b></div> <div>Battle Ground, WA</div>	
GLOBAL TOLERANCES		CHECK BY DATE PROJ ENG DATE MFG ENG DATE	FINISH: SEE NOTES		
INCHES [mm] X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127]		DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION		<div><b>ASSEMBLY, CRUCIBLE SENSOR, 274</b></div>
ANGLES +/- .5° SURF FINISH 63 RMS		FILE NUMBER - 274-0300-1 INITIAL PROJECT -			
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<div><b>C</b></div>		SCALE 1:1	DWG NO.	REV	
		SHEET 1 of 1	<b>274-0300-1</b>	<b>B</b>	

- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE BURRS & BREAK ALL SHARP EDGES  
.005-.015 RADIUS OR CHAMFER.
  2. ALL SURFACES  $\sqrt{63}$
  3. BAG WITH PART NUMBER AND REVISION.

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/9/2017
990824		A1	REVISED 274-0301-1	GPD	4/16/2018
990880		B	P/N FROM 271-6004-9 TO 271-6073-9	GPD	3/20/2020



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6073-9	SCREW, CAP SOC HD, #6-32 UNC X 7/8" LONG, SST	2
2	271-6125-1	VENTED SCREW, #8-32 UNC X 3/8" LG, SST, SHCS	2
3	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	3
4	271-6281-3	RETAINING RING, EXTERNAL, 5/16", SST	1
5	274-0301-1	MOUNTING BLOCK, CRUCIBLE SENSOR	1
6	274-0302-1	HOUSING, CRUCIBLE SENSOR	1
7	274-0303-1	INSULATOR, CRUCIBLE SENSOR	1
8	274-0304-1	SHAFT, CRUCIBLE SENSOR	1
9	274-0305-9	MICRO SWITCH, SPDT, PIN PLUNGER, CERAMIC	1
10	274-0306-1	SHOULDER SCREW, MODIFIED	1
11	274-0307-1	SPRING, COMPRESSION, .42 O.D. X .62 LONG X .038 WIRE DIAMETER	1
12	528-0069-1	BEARING, 3/8" O.D. X 3/16" I.D. X 1/8" THICK, SHIELDED, SST	1
13	396-9060-1	CABLE, IN-VAC HOME	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY: <b>G. DION</b> DATE: <b>3-9-2017</b>	MATERIAL: SEE PARTS LIST	<b>TELEMARK</b> Battle Ground, WA	
INCHES [mm] X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH $\sqrt{63}$ RMS		CHECK BY: PROJ ENG DATE: MFG ENG DATE: DO NOT SCALE DRAWING	FINISH: SEE NOTES		
FILE NUMBER - 274-0300-2 INITIAL PROJECT -		THIRD ANGLE PROJECTION		<b>ASSEMBLY, CRUCIBLE SENSOR, CERAMIC, 274</b>	
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