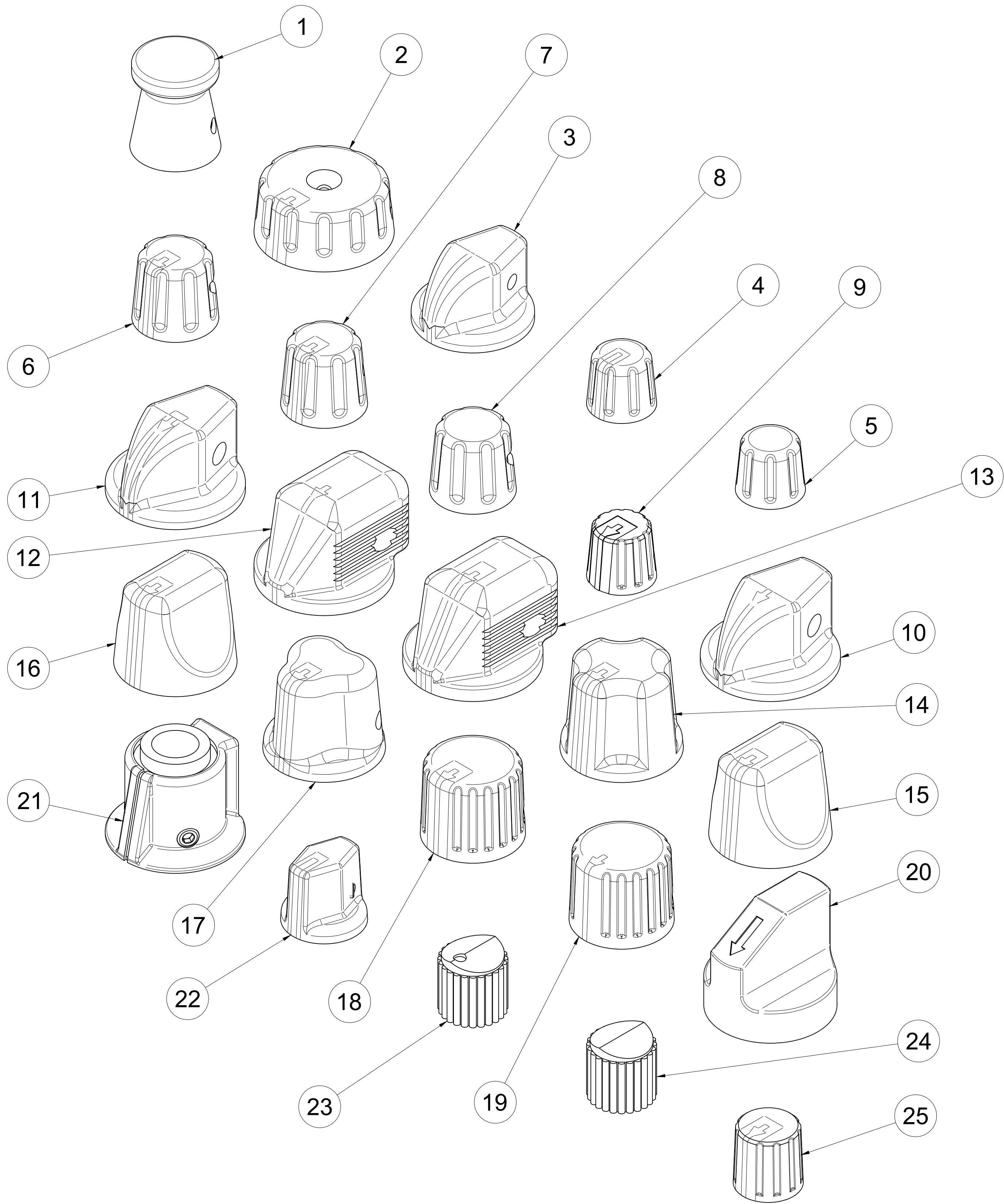


NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL ITEMS NOT EXPLICITLY DEFINED IN THIS DRAWING ARE DEFINED BY THE MASTER CAD MODELS. ALL DIMENSIONS NOT DEFINED ON THIS DRAWING ARE CONTAINED WITHIN THE FOLLOWING INTERMEDIATE FILES:
- 1.1. RESIN 3D PRINTED PARTS: RESIN_<PN>_<REV>.<VERSION # OF MODEL>.STL
2. PAINT KNOB AS DESCRIBED IAW FED-STD-595:
- 2.1. FINISH TYPE A
- 2.1.1. PAINT ENTIRE KNOB WITH 2X COATS OF INSIGNIA WHITE, FS37875
- 2.1.2. IF INDICA AROUND POINTER LINE EXISTS, MASK POINTER LINE, AND BOTTOM SURFACE OF KNOB THEN PAINT INDICA AND KNOB BODY LUSTERLESS BLACK, FS37038
- 2.1.3. MASK BOTTOM SURFACE OF KNOB, POINTER LINE AND INDICA, THEN PAINT ENTIRE KNOB WITH DARK GULL GREY, FS36231
- 2.2. FINSH TYPE B
- 2.2.1. PAINT ENTIRE KNOB WITH 2X COATS OF INSIGNIA WHITE, FS37875
- 2.2.2. MASK BOTTOM SURFACE OF KNOB, POINTER LINE AND INDICA, THEN PAINT ENTIRE KNOB WITH LUSTERLESS BLACK, FS37038
3. MATERIAL FOR ALL KNOBS: TRANSPARENT (CLEAR) OR WHITE TRANSLUCENT RESIN



REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	3/27/2023	
A	FN 21: EXTENDED INDICA TO RING; PAINTED RING WHITE.	7/27/2024	J. STEENSEN

25	OHC0003-412FGB2	ASSY, KNOB, GREY, .125 RECESSED D-SHAFT
24	OHC0003-A-028ABN2	ASSY, KNOB, BLACK, ROUND, .125 D-SHAFT
23	OHC0003-A-028ABW2	ASSY, KNOB, BLACK, ROUND, .125 D-SHAFT
22	OHC0003-A-1TS5GB4	ASSY, KNOB, GREY, .25 D-SHAFT
21	OHC0003-A-4RUDGB3	ASSY, KNOB, RUDDER TRIM
20	OHC0003-A-4OXYGW4	KNOB, OBOGS
19	OHC0003-A-287ABW4	ASSY, KNOB, BLACK, .25 D-SHAFT
18	OHC0003-A-287AGB4	ASSY, KNOB, GREY, .25 D-SHAFT
17	OHC0003-A-385EGB4	ASSY, KNOB, GREY, .25 D-SHAFT
16	OHC0003-A-385CGB4-LO	ASSY, KNOB, GREY, .25 D-SHAFT, MOD FOR ECM
15	OHC0003-A-385CGB4	ASSY, KNOB, GREY, .25 D-SHAFT
14	OHC0003-A-385BGB4	ASSY, KNOB, GREY, .25 D-SHAFT
13	OHC0003-A-484DGB4	ASSY, KNOB, GREY, LARGE, .25 D-SHAFT
12	OHC0003-A-484DBW4	ASSY, KNOB, BLACK, LARGE, .25 D-SHAFT
11	OHC0003-A-484AGB4	ASSY, KNOB, GREY, .25 D-SHAFT
10	OHC0003-A-484ABW4	ASSY, KNOB, BLACK, .25 D-SHAFT
9	OHC0003-A-012FGB3	ASSY, KNOB, GREY, .25 D-SHAFT
8	OHC0003-A-18FLGN4	ASSY, KNOB, GREY, .25 D-SHAFT
7	OHC0003-A-18FLGB1	ASSY, KNOB, GREY, .125 SHAFT
6	OHC0003-A-18FLGB4	ASSY, KNOB, GREY, .25 D-SHAFT
5	OHC0003-A-08FLGN3-SR	ASSY, KNOB, GREY, .25 SHAFT, SINGLE SETSCREW
4	OHC0003-A-08FLGB1-SR	ASSY, KNOB, GREY, .125 SHAFT
3	OHC0003-A-384ABW2	ASSY, KNOB, BLACK, .125 D-SHAFT
2	OHC0003-A-8CONGB3	ASSY, KNOB, GREY, .25 SHAFT, 12-FLUTES
1	OHC0003-A-1AUGGN6	ASSY, KNOB, GREY, AUG-PULL, .125 SHAFT
ITEM	PART NUMBER	DESCRIPTION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES.
DUAL DIMENSIONS ARE IN MILLIMETERS AND ENCLOSED IN SQUARE BRACKETS.
INTERPRET DRAWING IAW ASME Y14.100-2017.
INTERPRET DIM AND TOL IAW ASME Y14.5-2009.
REMOVE ALL BURRS AND SHARP EDGES TO .05 MAX.
DIMENSIONS APPLY BEFORE FINISH.

UOS INCH TOLERANCES ARE:

DECIMALS:
.X ± .1
.XX ± .03
.XXX ± .010

ANGLES:
MACHINED ± 5°
LOCATING ± 5°
FORMED ± 2°
CHAMFERS ± 5°

DRILLED HOLE DIAMETERS:
.0135 - .125: +.004/- .001
.126 - .250: +.005/- .001
.251 - .500: +.006/- .001
.501 - .750: +.008/- .001
.751 - 1.000: +.010/- .001
1.001 - 2.000: +.012/- .001

BY NC SA

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<https://www.OpenHornet.com>

TITLE

ASSY, KNOBS

COMMON

REV A

DESIGNED J. STEENSEN 03/27/2023

CHECKED J. STEENSEN 04/02/2023

DRAWN J. STEENSEN 03/27/2023

SIZE D

DWG NO OHC0003

SCALE 1:2

DO NOT SCALE DWG

SHEET 1/26

PAINT FED-STD-595,
FS36231, DARK GULL GREY

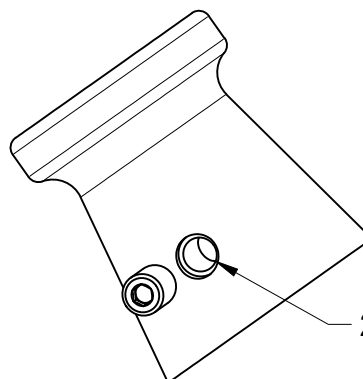


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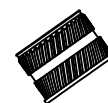
2



3



2X 4-40 UNC - 3B



3	2	92311A105	SET SCREW, 4-40 X .1875, CUP POINT, 18-8	SS
2	1	93365A130	INSERT, 6-32, BRASS, FOR PLASTIC	BRS
1	1	OHC0003-1AUGGN6	KNOB, GREY, AUG-PULL, .125 SHAFT	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



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SIZE DWG NO

A

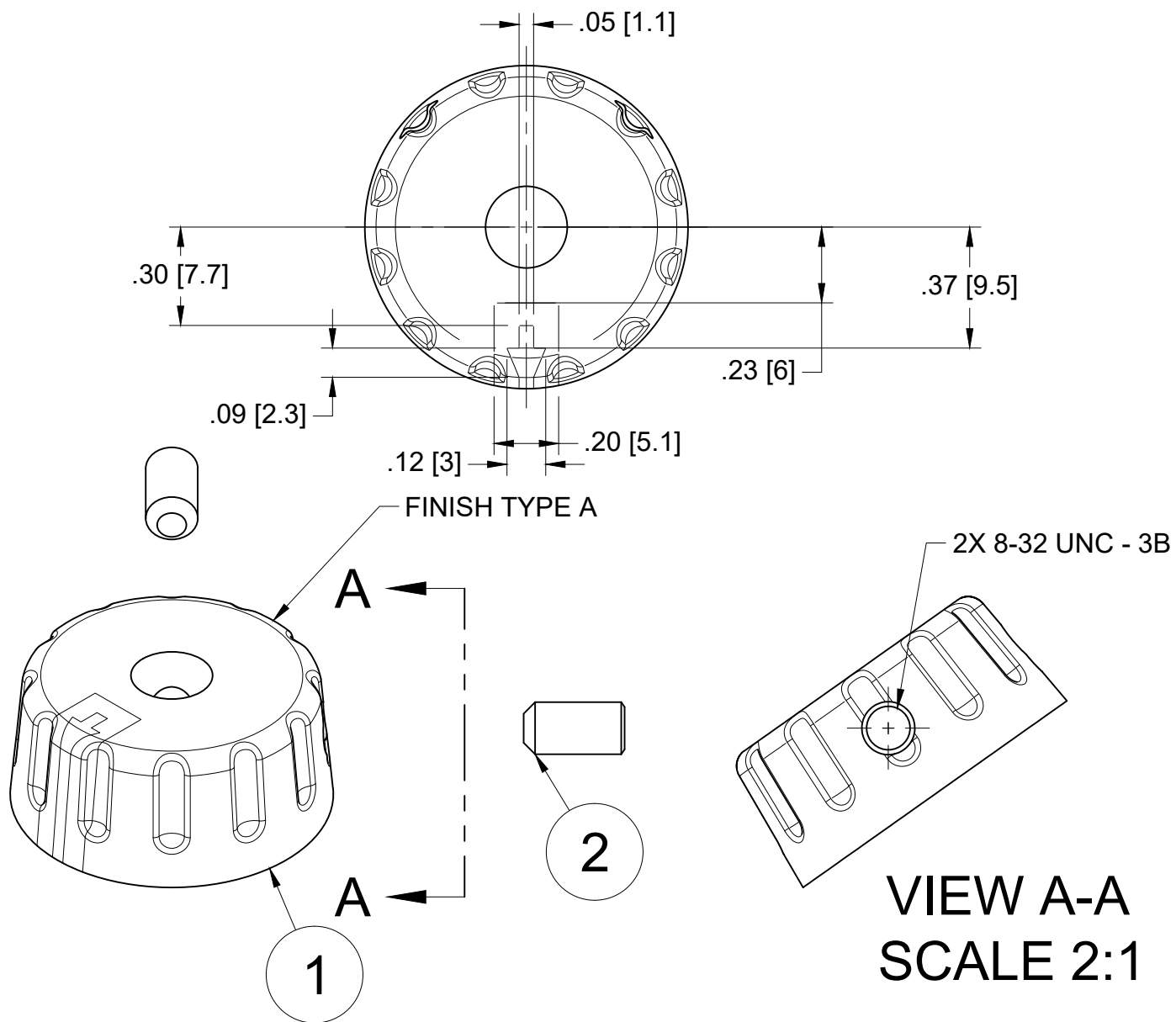
OHC0003-A-1AUGGN6

REV

A

SCALE 2:1

SHEET 2/26



VIEW A-A
SCALE 2:1

2	2	92311A191	SET SCREW, 8-32 X .3125, CUP POINT, 18-8	SS
1	1	OHC0003-4CONGB3	KNOB, GREY, .25 SHAFT, 12-FLUTES	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

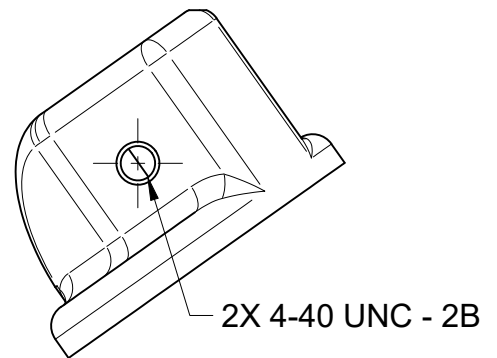
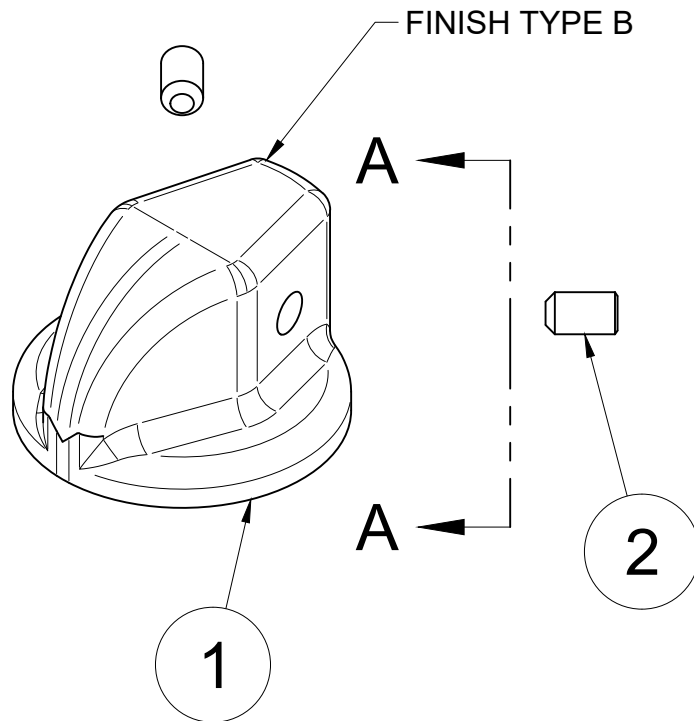
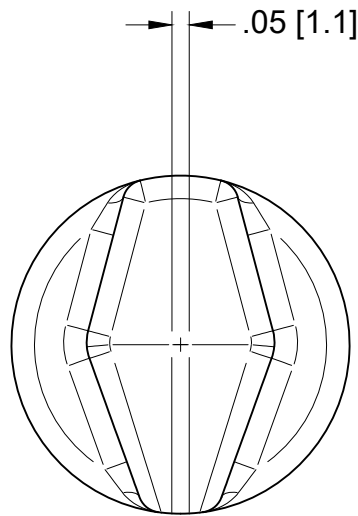
OHC0003-A-8CONGB3

REV

A

SCALE 2:1

SHEET 3/26



VIEW A-A
SCALE 2:1

2	2	92311A105	SET SCREW, 4-40 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-384ABW2	KNOB, BLACK, .125 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

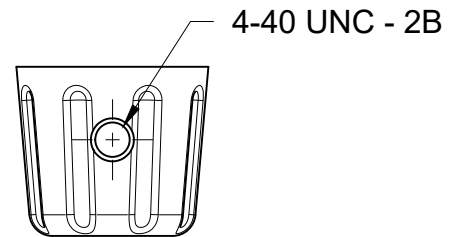
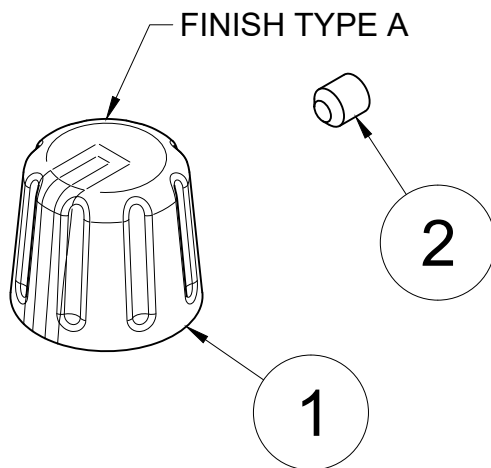
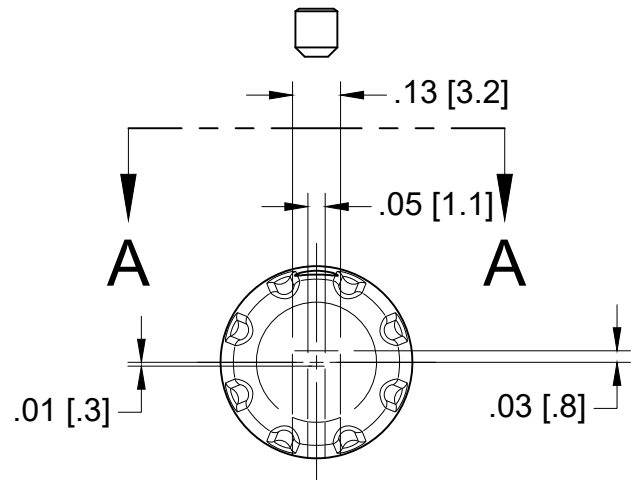
OHC0003-A-384ABW2

REV

A

SCALE 2:1

SHEET 4/26



VIEW A-A
SCALE 2:1

2	1	92311A103	SET SCREW, 4-40 X .125, CUP POINT, 18-8	SS
1	1	OHC0003-08FLGB1-SR	KNOB, GREY, .125 SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST

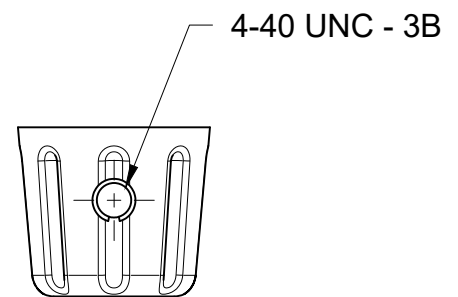
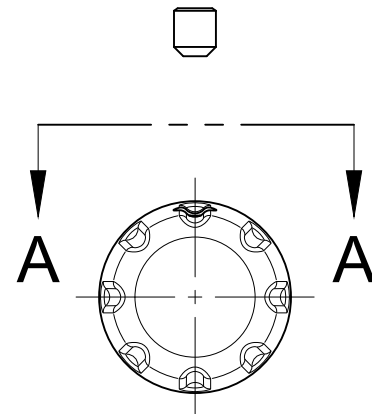
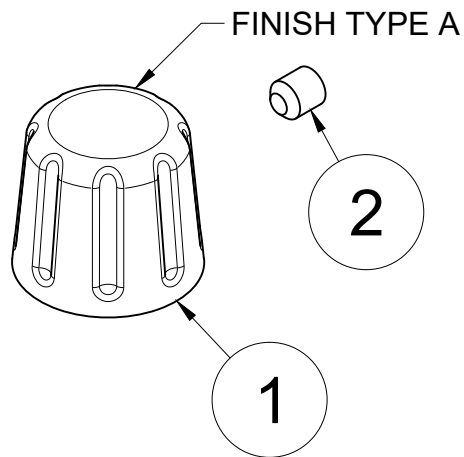


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SIZE A	DWG NO OHC0003-A-08FLGB1-SR	REV A
SCALE 2:1	SHEET 5/26	



VIEW A-A
SCALE 2:1

2	1	92311A103	SET SCREW, 4-40 X .125, CUP POINT, 18-8	SS
1	1	OHC0003-08FLGN3-SR	KNOB, GREY, .25 SHAFT, SINGLE SETSCREW	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



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SIZE DWG NO

A

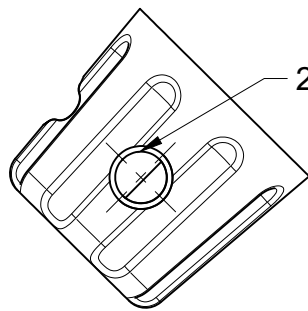
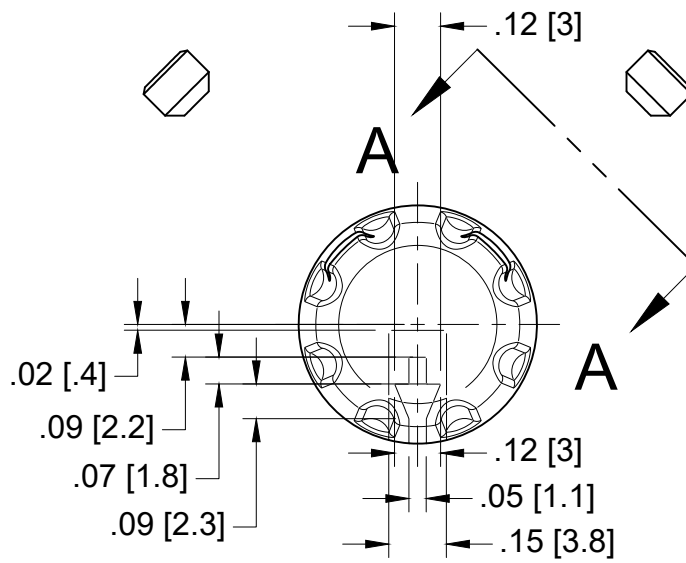
OHC0003-A-08FLGN3-SR

REV

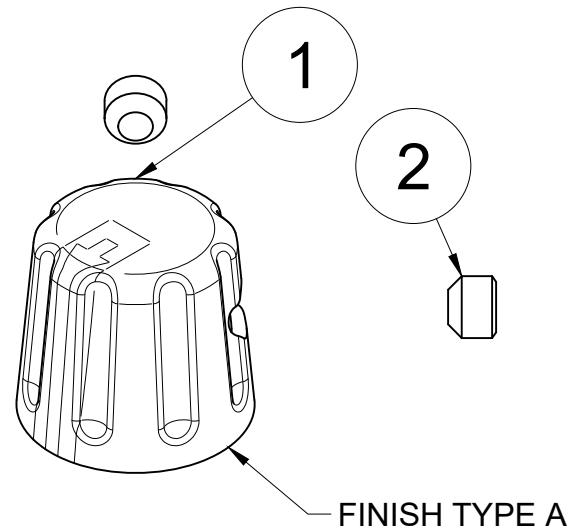
A

SCALE 2:1

SHEET 6/26



VIEW A-A
SCALE 2:1



2	2	92311A188	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-18FLGB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



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SIZE DWG NO

A

OHC0003-A-18FLGB4

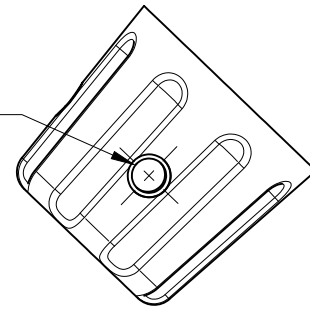
REV

A

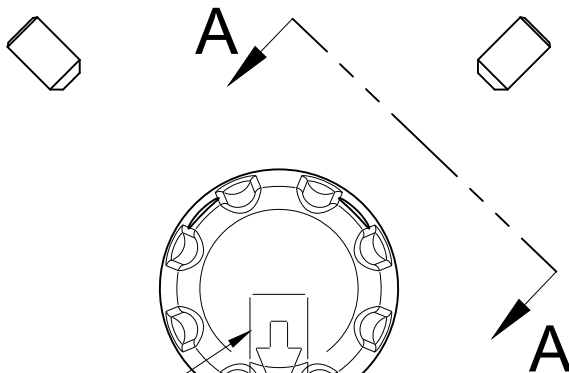
SCALE 2:1

SHEET 7/26

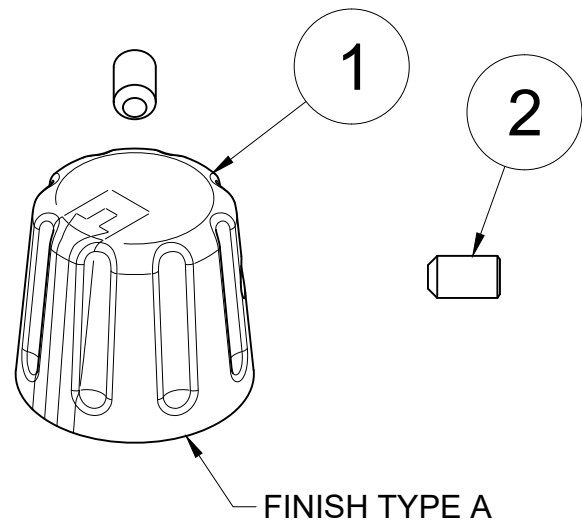
2X 4-40 UNC - 3B



VIEW A-A
SCALE 2:1



INDICA AND POINTER
DIMS SAME AS
OHC0003-A-18FLGB4



FINISH TYPE A

2	2	92311A105	SET SCREW, 4-40 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-18FLGB1	KNOB, GREY, .125 SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



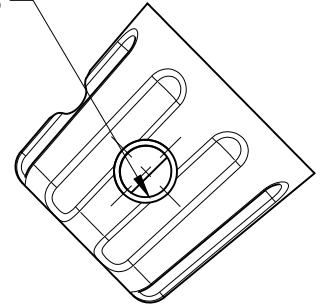
OPEN HORNET

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SIZE A	DWG NO OHC0003-A-18FLGB1	REV A
SCALE 2:1	SHEET 8/26	

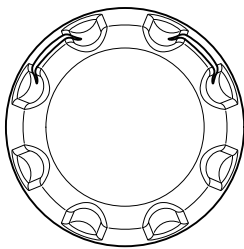
2X 8-32 UNC - 2B



VIEW A-A
SCALE 2:1

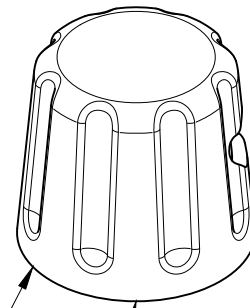


A



A

FINISH TYPE A



1



2

2	2	92311A188	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-18FLGN4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

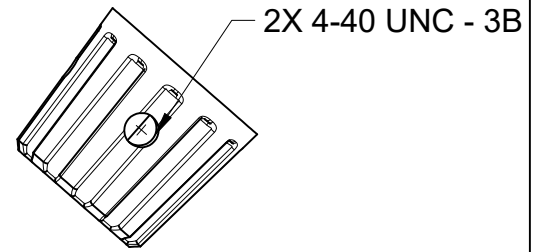
OHC0003-A-18FLGN4

REV

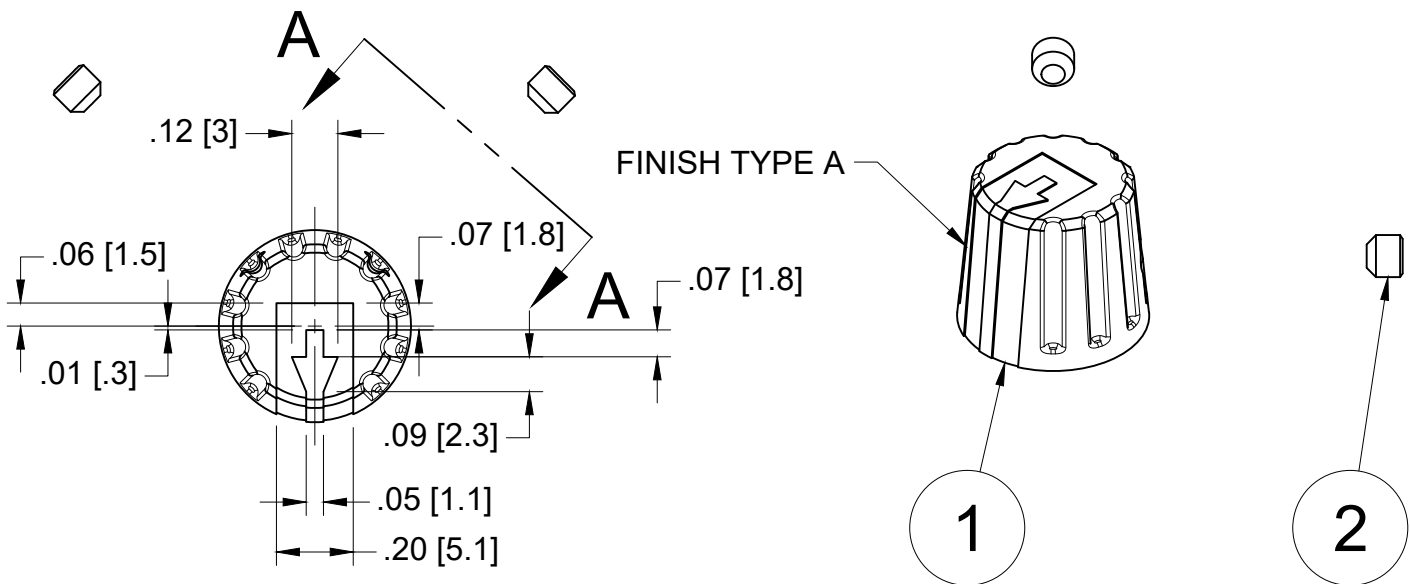
A

SCALE 2:1

SHEET 9/26



VIEW A-A SCALE 2:1



2	2	92311A102	SET SCREW, 4-40 X .093 CUP POINT, 18-8	SS
1	1	OHC0003-012FGB3	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



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SIZE DWG NO

A

OHC0003-A-012FGB3

REV

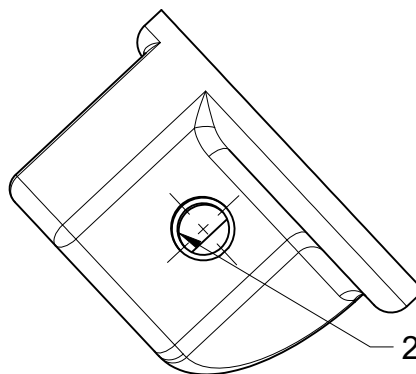
A

SCALE 2:1

SHEET 10/26

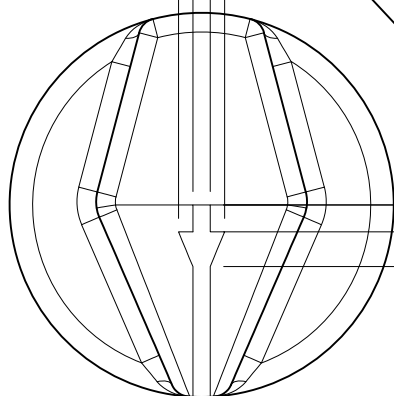
.05 [1.1]
.12 [3]

A



2X 8-32 UNC - 2B

VIEW A-A
SCALE 2:1



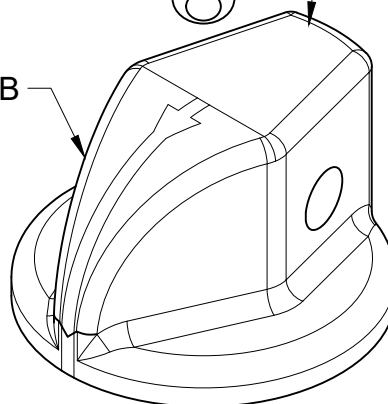
A

.16 [4.1]
.07 [1.8]

2

1

FINISH TYPE B



2	2	92311A188	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-484ABW4	KNOB, BLACK, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

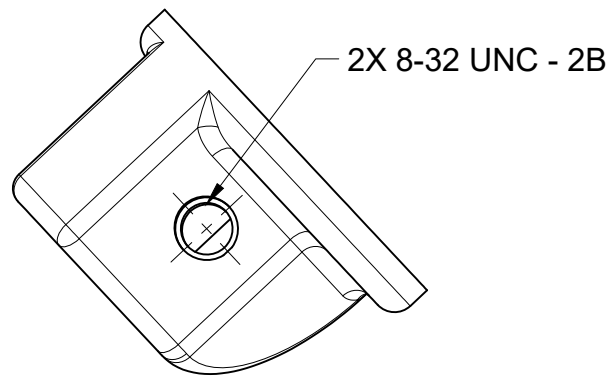
OHC0003-A-484ABW4

REV

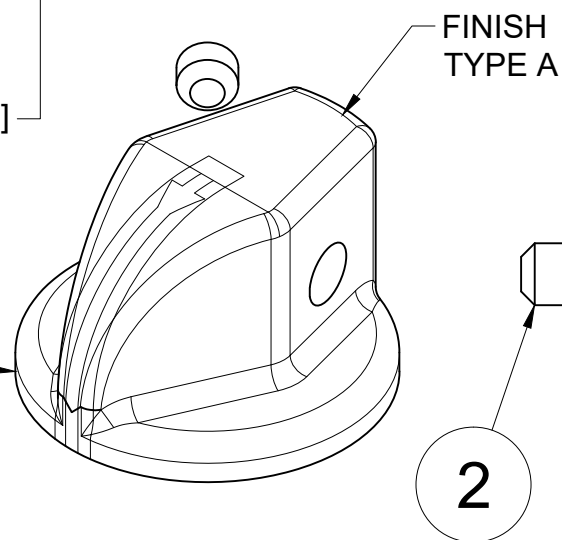
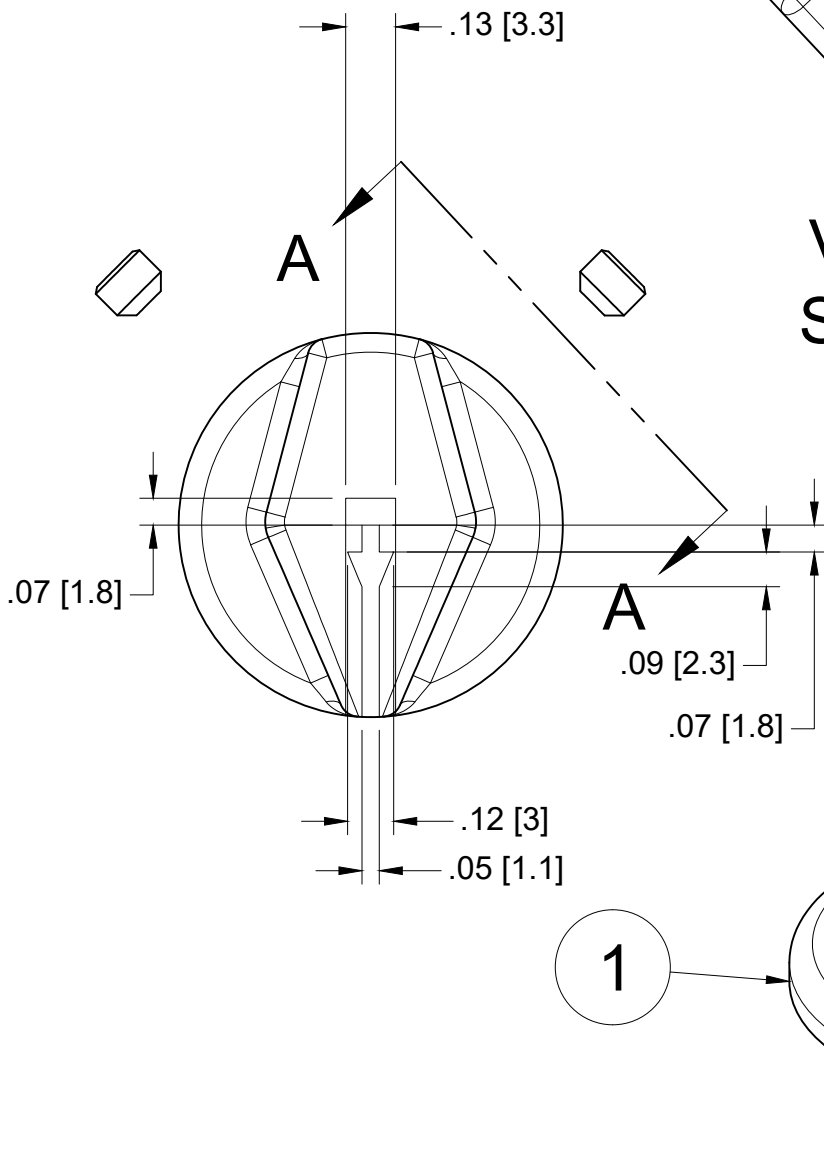
A

SCALE 2:1

SHEET 11/26



VIEW A-A
SCALE 2:1



2	2	92311A188	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-484AGB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

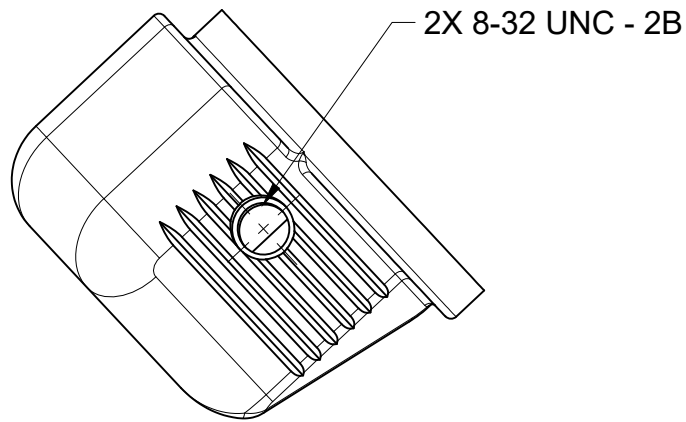
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REV

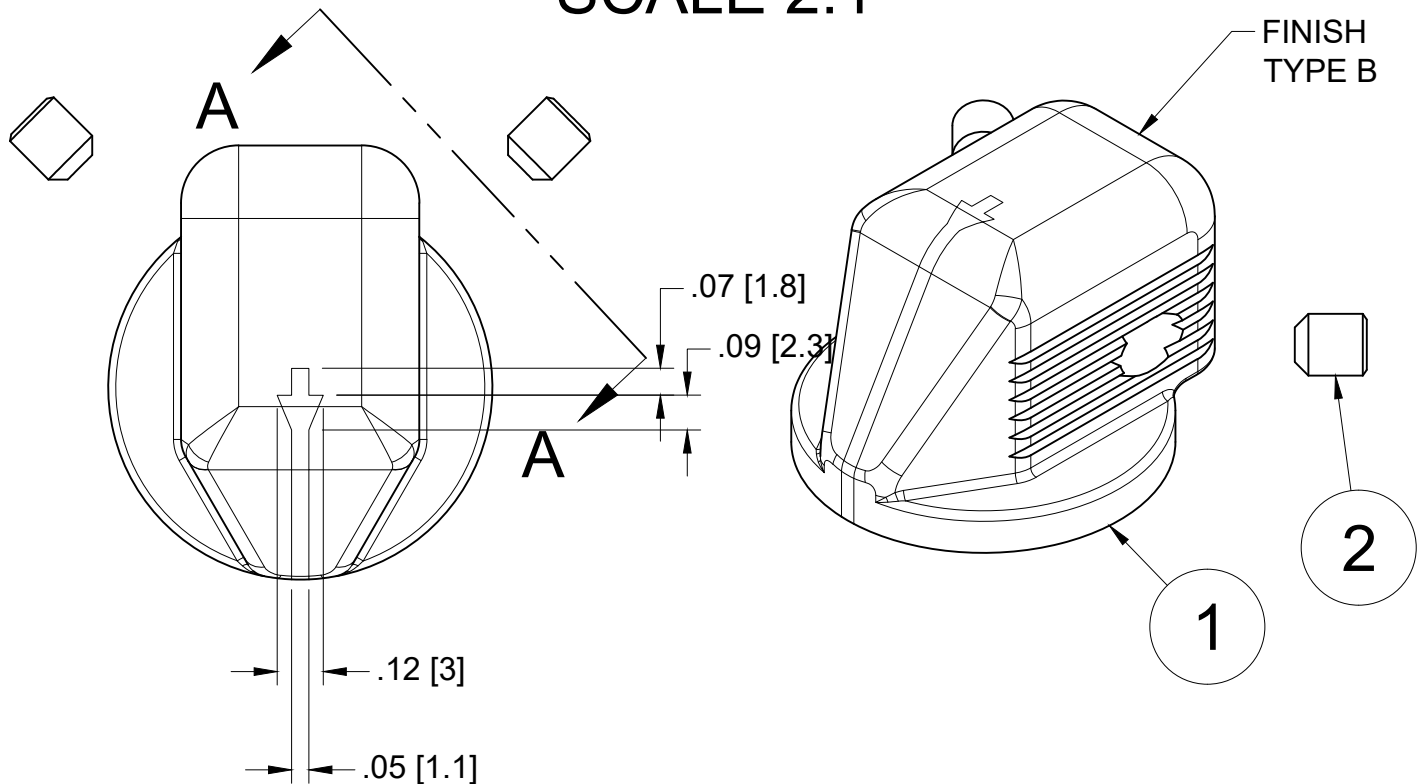
A

SCALE 2:1

SHEET 12/26



VIEW A-A SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-484DBW4	KNOB, BLACK, LARGE, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN **HORNET**

<https://www.OpenHornet.com>



SIZE DWG NO

A

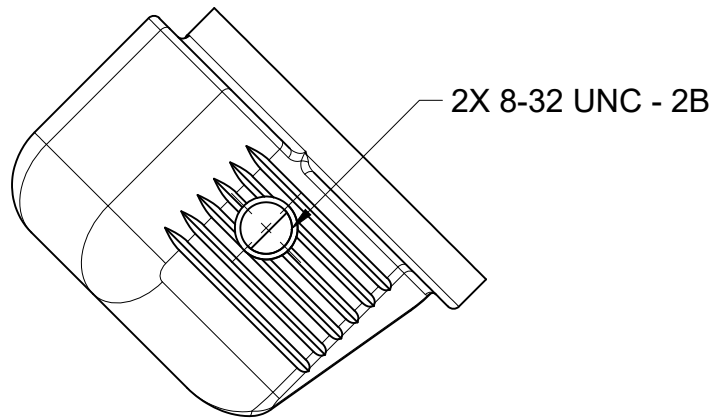
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REV

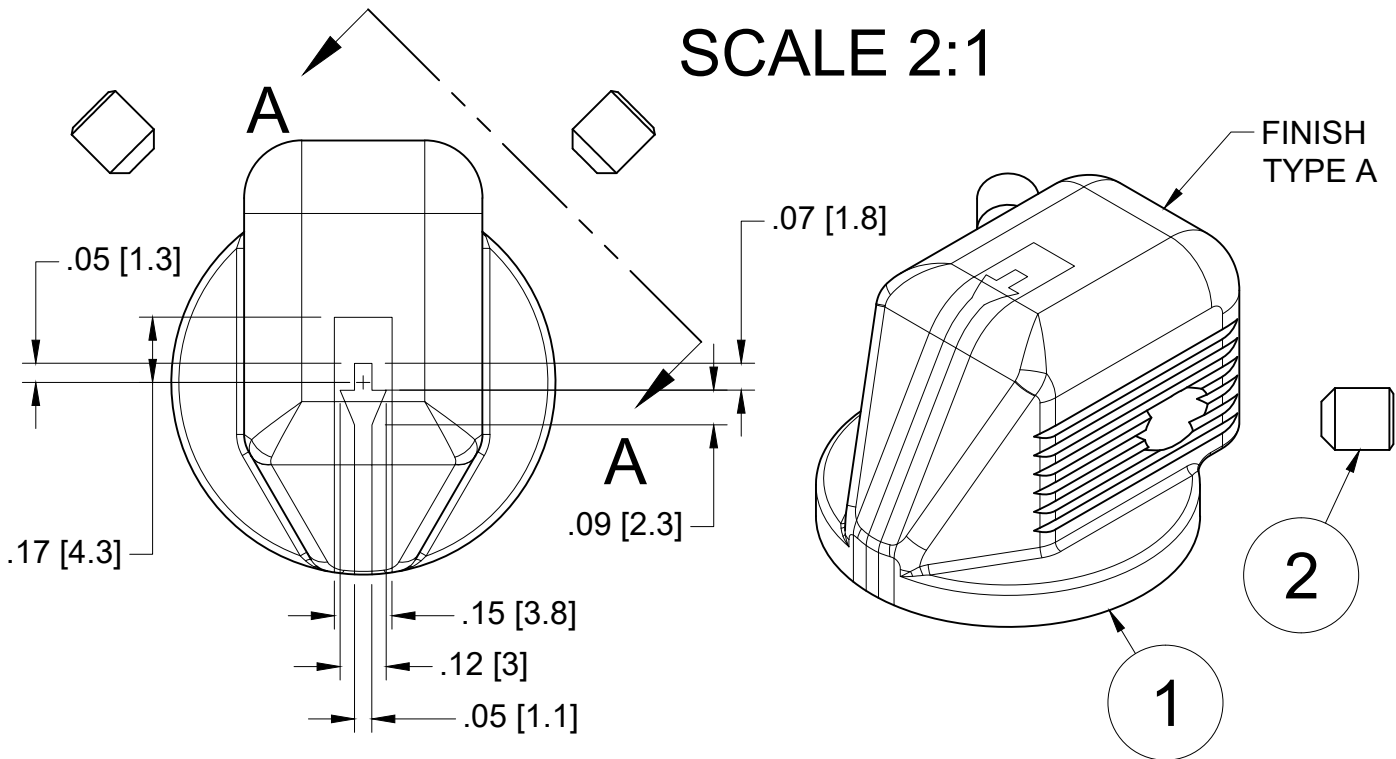
A

SCALE 2:1

SHEET 13/26



VIEW A-A SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-484DGB4	KNOB, GREY, LARGE, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN **HORN**ET

<https://www.OpenHornet.com>



SIZE DWG NO

A

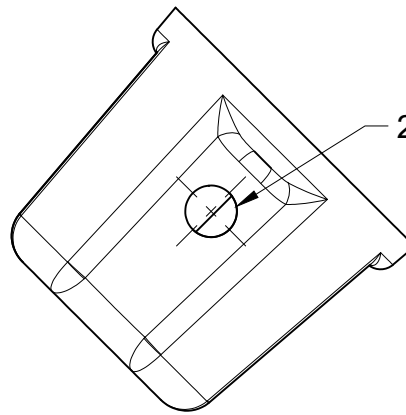
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REV

A

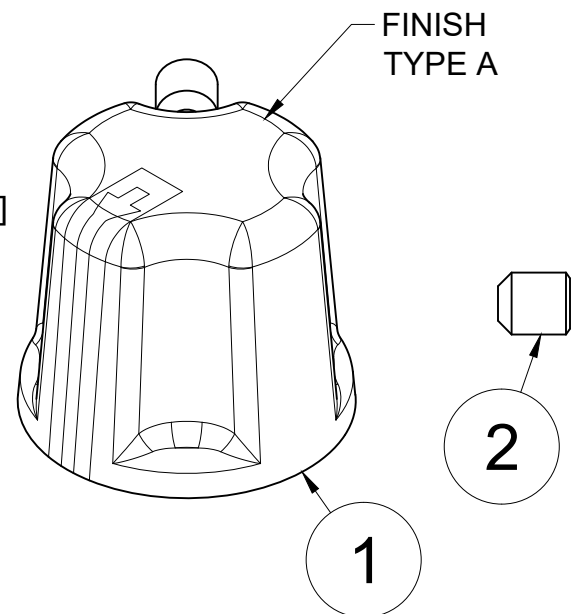
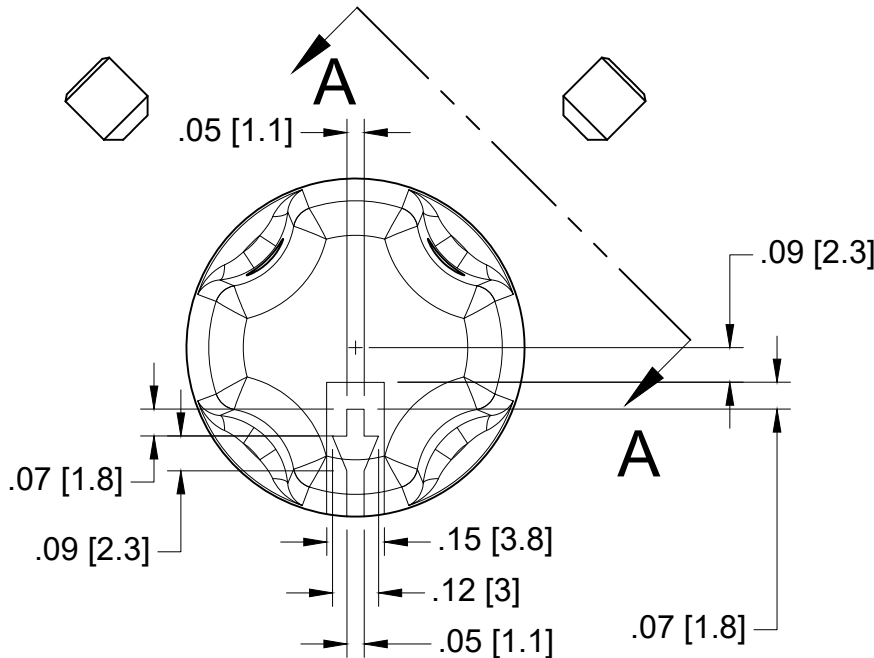
SCALE 2:1

SHEET 14/26



2X 8-32 UNC - 2B

VIEW A-A SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-385BGB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

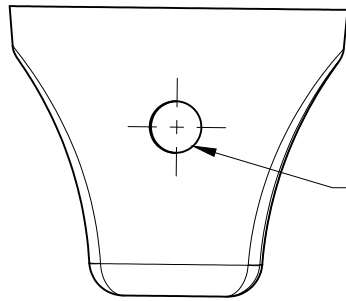
OHC0003-A-385BGB4

REV

A

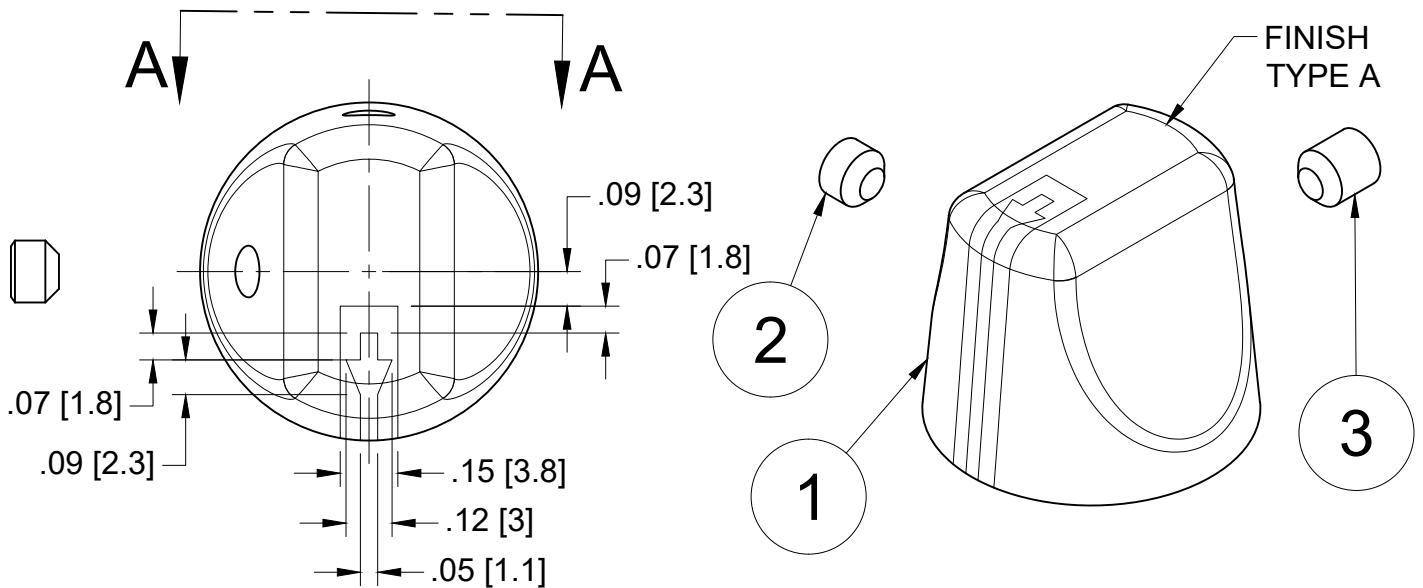
SCALE 2:1

SHEET 15/26



2X 8-32 UNC - 2B

VIEW A-A
SCALE 2:1



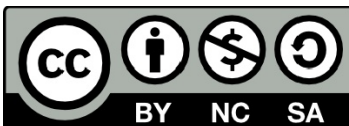
3	1	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
2	1	92311A188	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-385CGB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

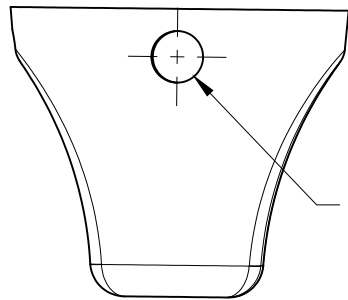
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REV

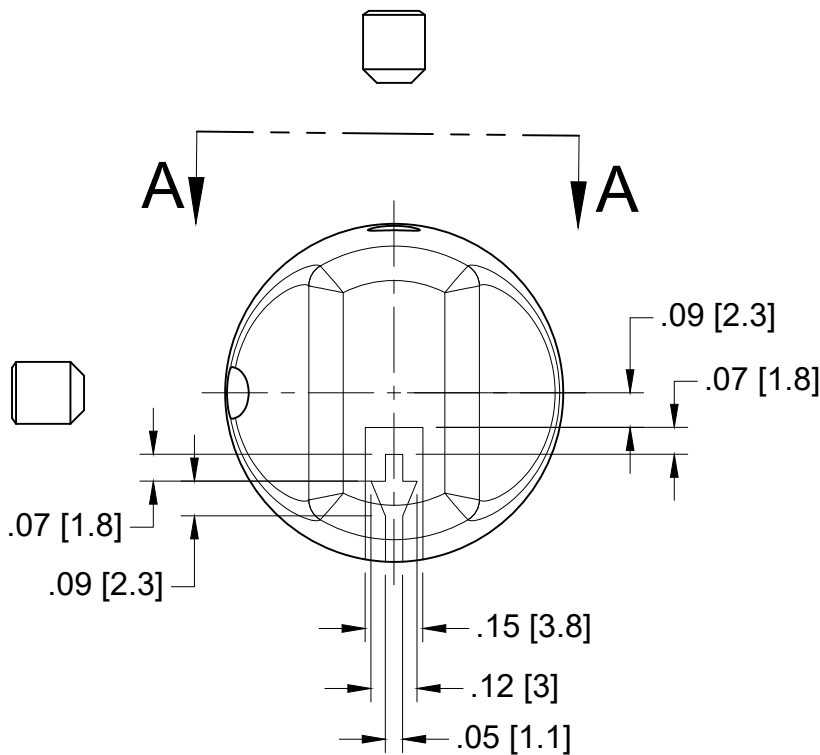
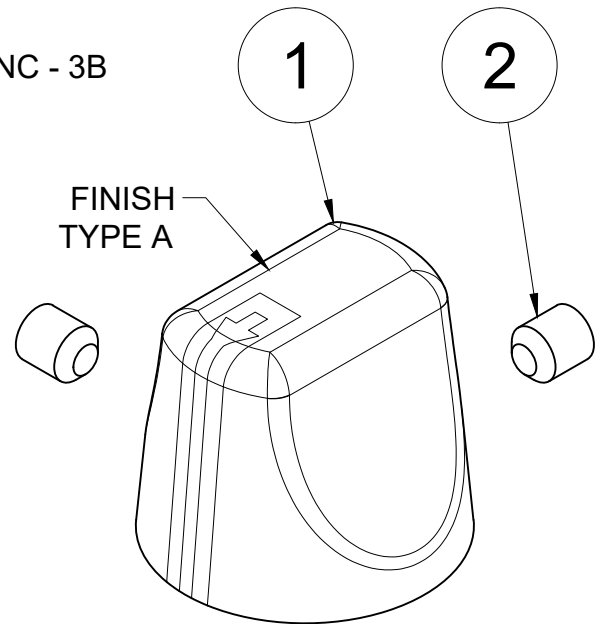
A

SCALE 2:1

SHEET 16/26



VIEW A-A
SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-385CGB4-LO	KNOB, GREY, .25 D-SHAFT, MOD	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

OHC0003-A-385CGB4-LO

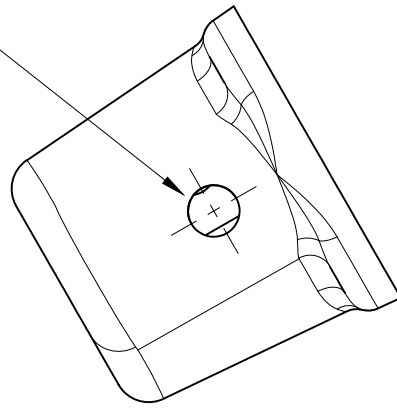
REV

A

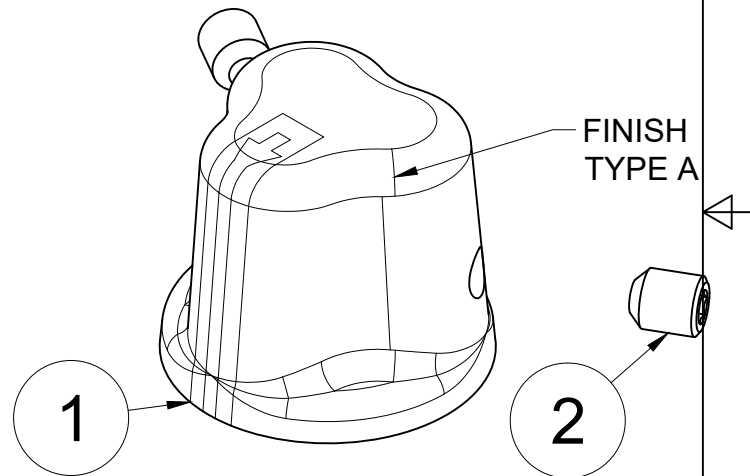
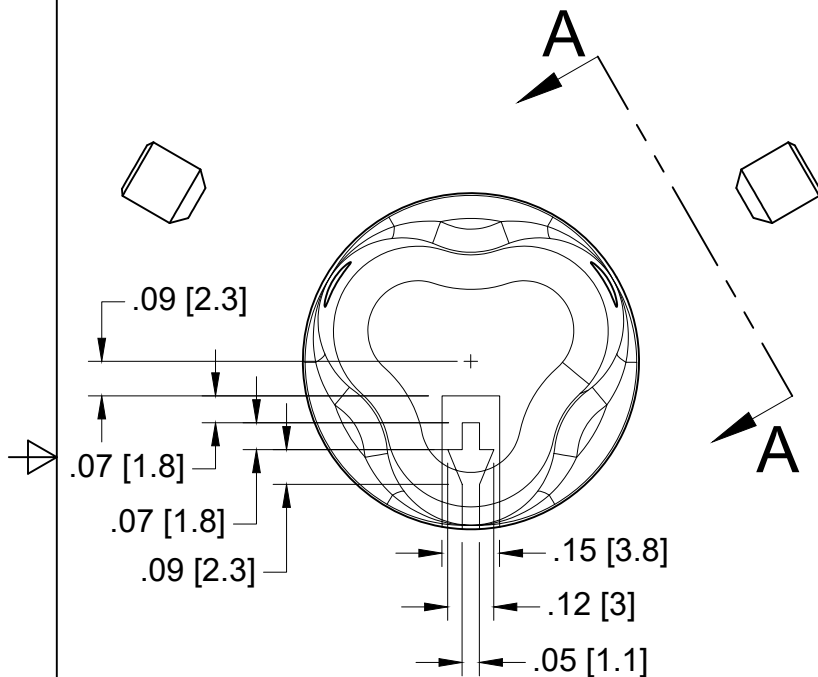
SCALE 2:1

SHEET 17/26

2X 8-32 UNC - 2B



VIEW A-A
SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-385EGB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

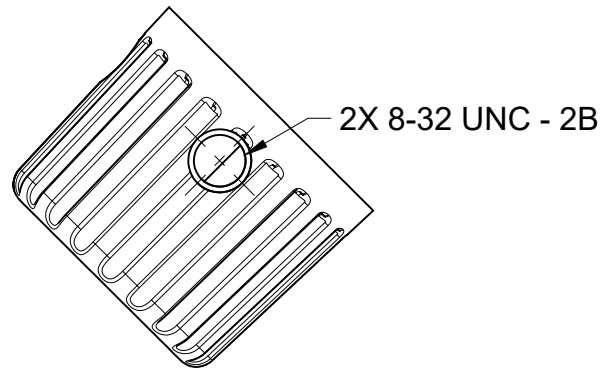
OHC0003-A-385EGB4

REV

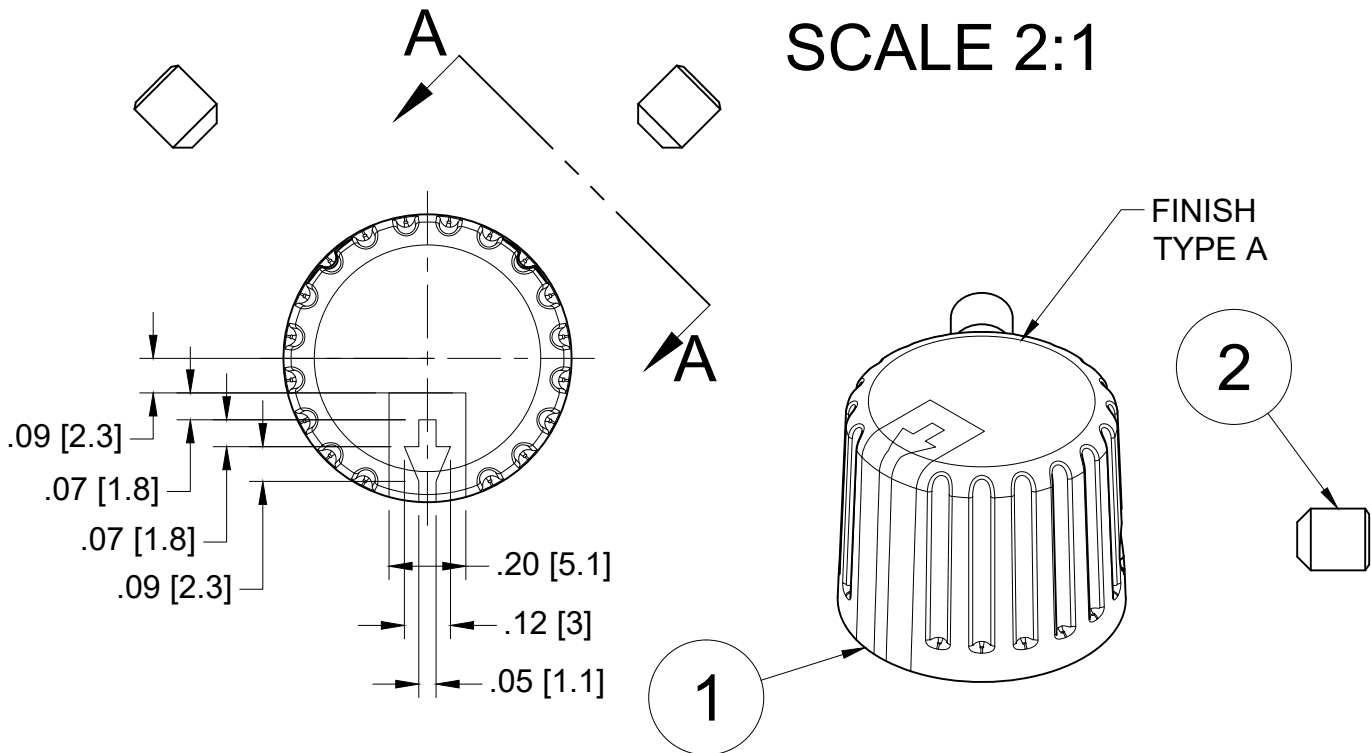
A

SCALE 2:1

SHEET 18/26



VIEW A-A
SCALE 2:1



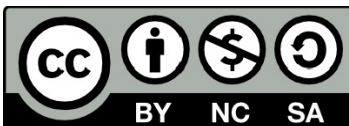
2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-287AGB4	ASSY, KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

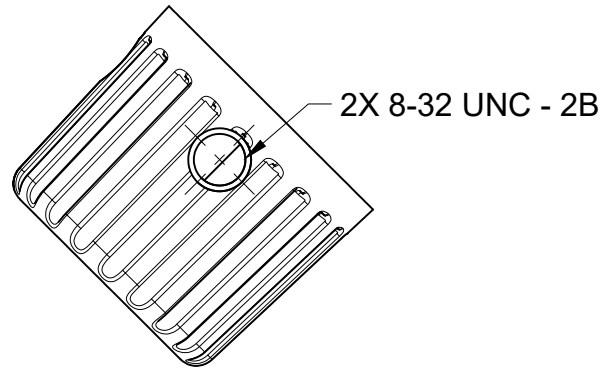
OHC0003-A-287AGB4

REV

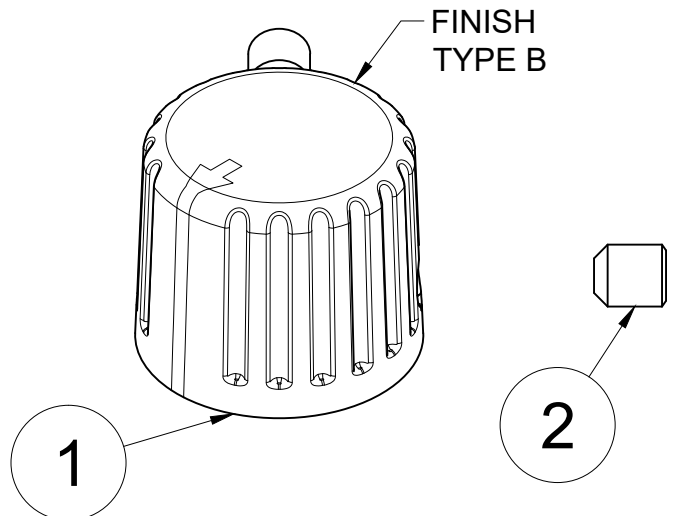
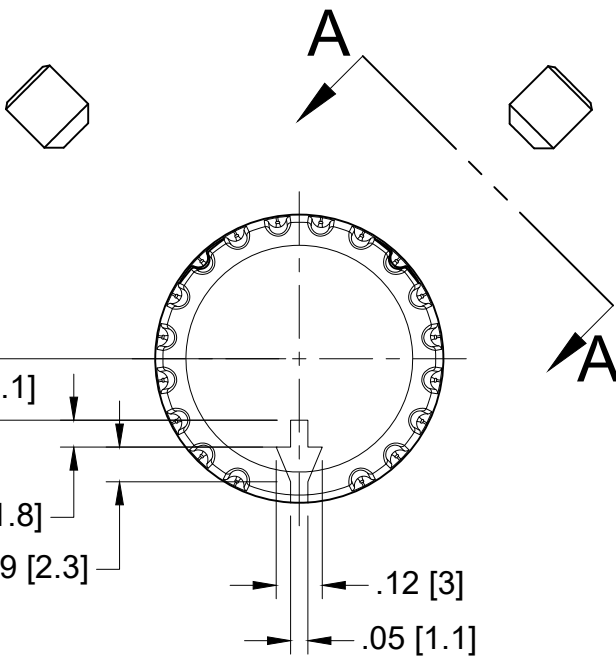
A

SCALE 2:1

SHEET 19/26



VIEW A-A
SCALE 2:1



2	2	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-287ABW4	KNOB, BLACK, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

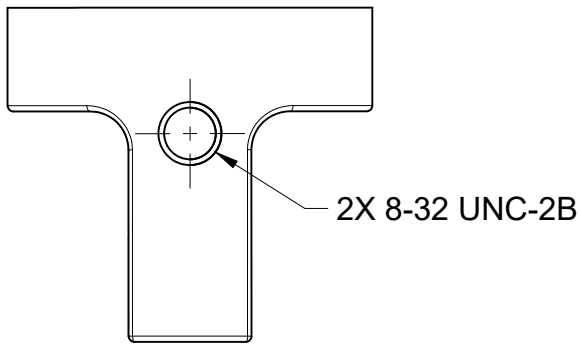
OHC0003-A-287ABW4

REV

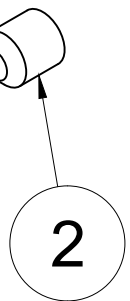
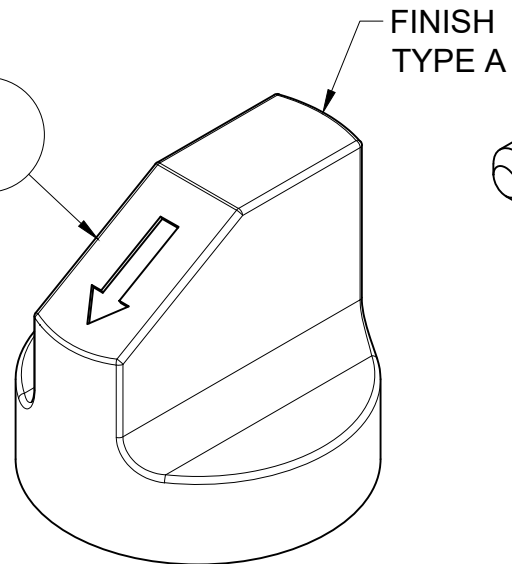
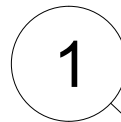
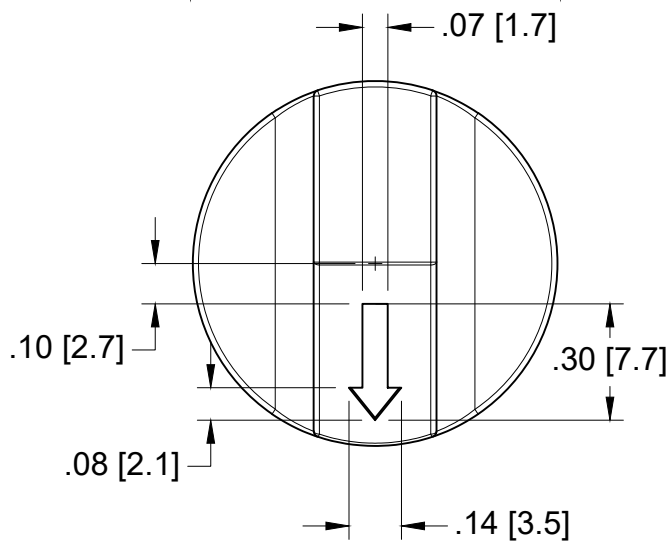
A

SCALE 2:1

SHEET 20/26



VIEW A-A
SCALE 2:1



2	1	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC-KNB-OBOGS	KNOB, OBOGS	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

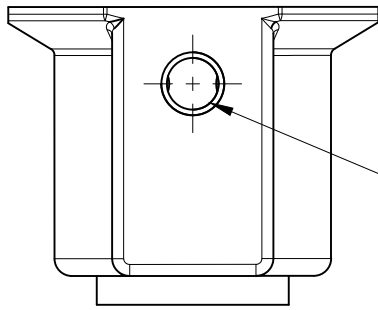
OHC0003-A-4OXYGW4

REV

A

SCALE 2:1

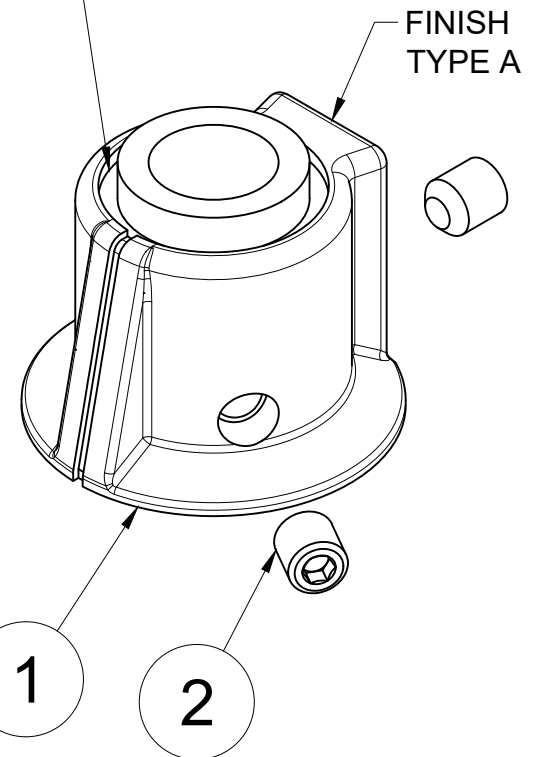
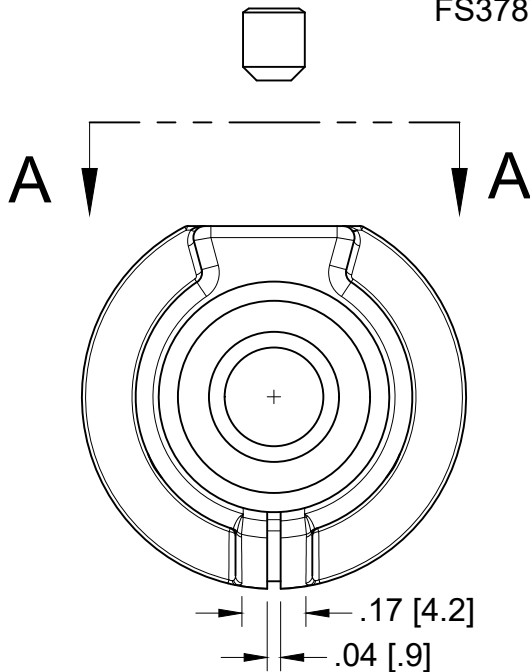
SHEET 21/26



Ø.1345 ±.14
8-32 UNC - 2B

VIEW A-A
SCALE 2:1

PAINT INSIDE OF
RING FED-STD-595,
FS37875, INSIGNIA WHITE



2	3	92311A189	SET SCREW, 8-32 X .1875, CUP POINT, 18-8	SS
1	1	OHC0003-4RUDGB3	KNOB, RUDDER TRIM	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

OHC0003-A-4RUDGB3

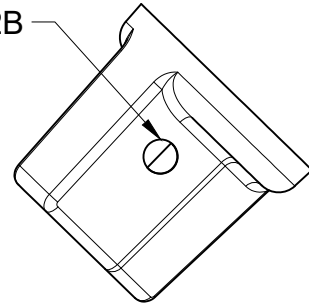
REV

A

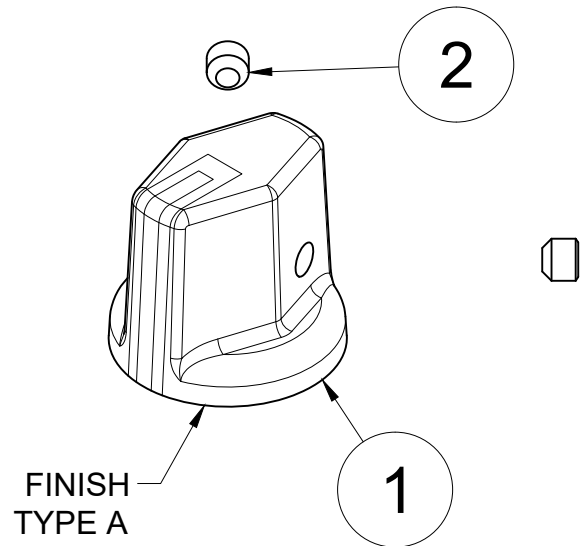
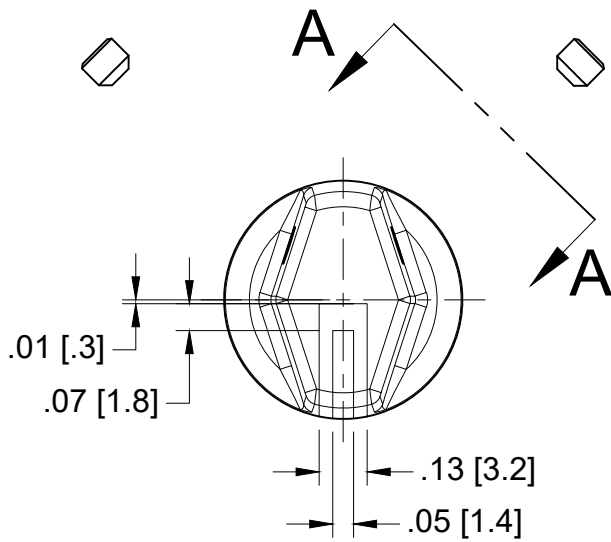
SCALE 2:1

SHEET 22/26

2X 4-40 UNC - 2B



VIEW A-A
SCALE 2:1



2	2	92311A102	SET SCREW, 4-40 X .093 CUP POINT, 18-8	SS
1	1	OHC0003-1TS5GB4	KNOB, GREY, .25 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

OHC0003-A-1TS5GB4

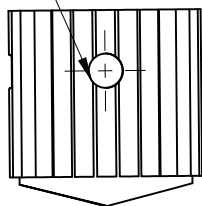
REV

A

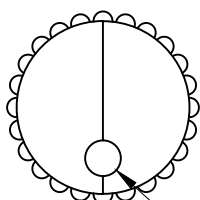
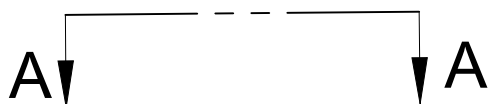
SCALE 2:1

SHEET 23/26

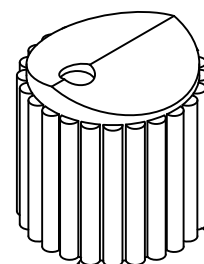
2X 4-40 UNC - 3B



VIEW A-A
SCALE 2:1



Ø.09 [Ø2.4]



FINISH
TYPE B



2

1

2	2	92311A102	SET SCREW, 4-40 X .093 CUP POINT, 18-8	SS
1	1	OHC0003-028ABW2	KNOB, BLACK, ROUND, .125 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

OHC0003-A-028ABW2

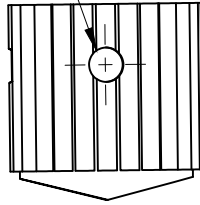
REV

A

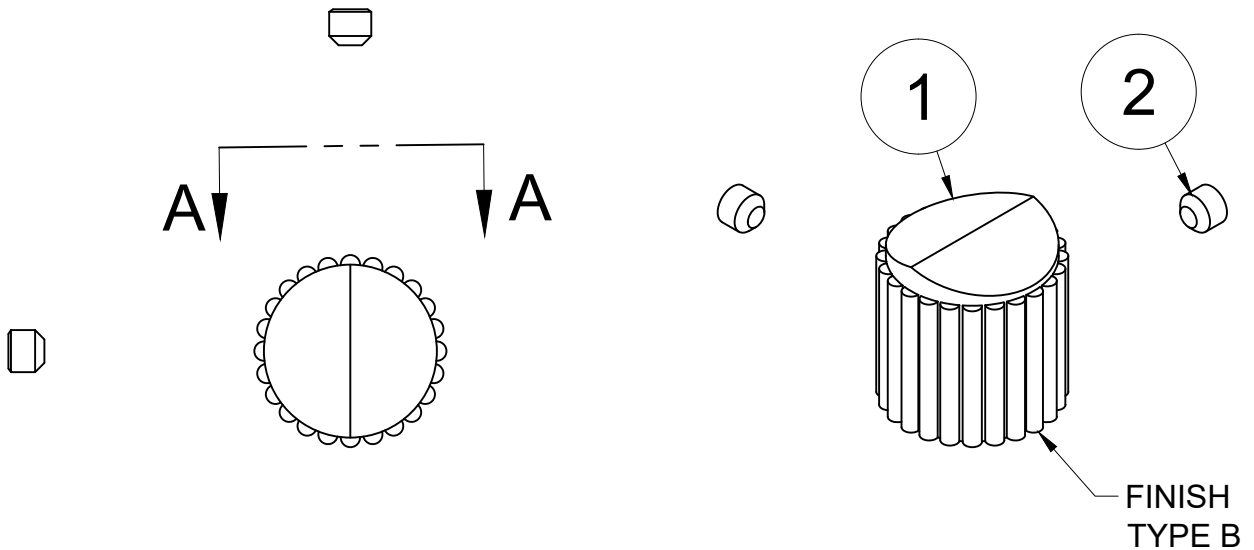
SCALE 2:1

SHEET 24/26

2X 4-40 UNC - 3B



VIEW A-A
SCALE 2:1



2	2	92311A102	SET SCREW, 4-40 X .093 CUP POINT, 18-8	SS
1	1	OHC0003-028ABN2	KNOB, BLACK, ROUND, .125 D-SHAFT	RESN
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST

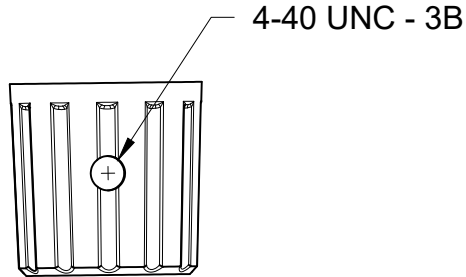


OPEN HORNET

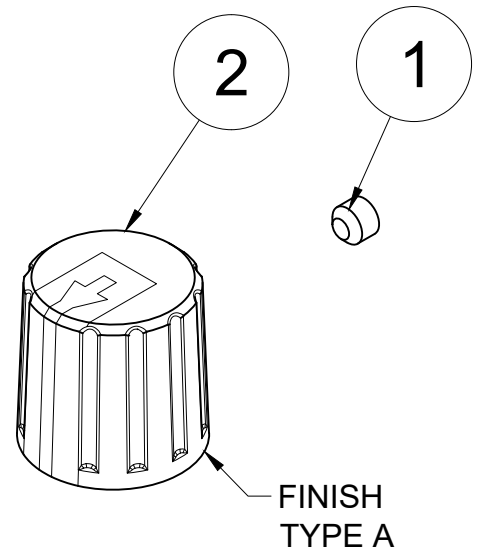
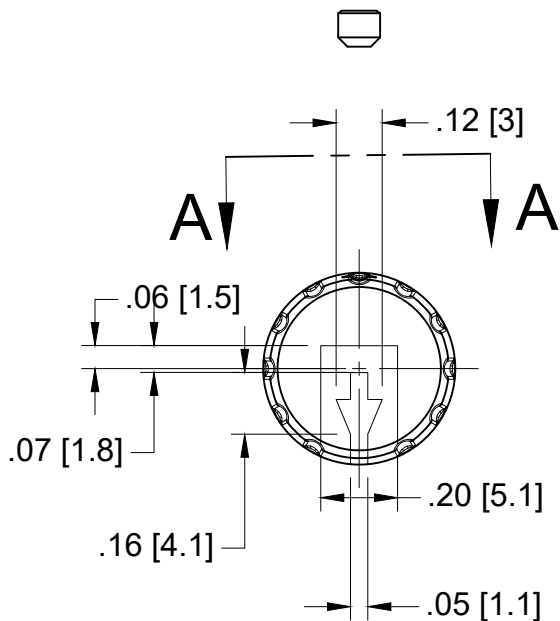
<https://www.OpenHornet.com>



SIZE A	DWG NO OHC0003-A-028ABN2	REV A
SCALE 2:1	SHEET 25/26	



VIEW A-A
SCALE 2:1



2	1	OHC0003-412FGB2	ASSY, KNOB, GREY, .125 RECESSED D-SHAFT	RESN
1	1	92311A102	SET SCREW, 4-40 X .093 CUP POINT, 18-8	SS
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST



OPEN HORNET

<https://www.OpenHornet.com>



SIZE DWG NO

A

OHC0003-412FGB2

REV

A

SCALE 2:1

SHEET 26/26