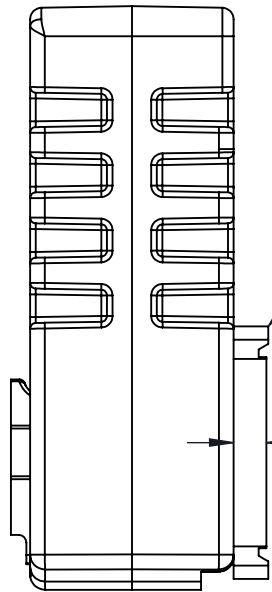


BALANCE ASSEMBLY PART NUMBERS

	BRAKE PAD COLOR, EXTENSION, PAD PART NUMBER, SHOE SUB-ASSEMBLY PART NUMBER									
ASSEMBLY WEIGHT (LBS)	BLACK EXTENSION = .035" PAD # = 12158082 SHOE # = NA	WHITE EXTENSION = .045" PAD # = 12163081 SHOE # = NA	DUSK EXTENSION = .055" PAD # = 12147079 SHOE # = 81023ANA	BROWN EXTENSION = .065" PAD # = 12148085 SHOE # = NA	CADET BLUE EXTENSION = .075" PAD # = 12149083 SHOE # = 81043ANA	GREEN EXTENSION = .085" PAD # = 12150086 SHOE # = 81053ANA	TAN EXTENSION = .095" PAD # = 12142087 SHOE # = 81063ANA	CREAM EXTENSION = .105" PAD # = 12151180 SHOE # = 81073ANA	DESERT SAND (PINK) EXTENSION = .115" PAD # = 12152088 SHOE # = 81083ANA	ASSEMBLY WEIGHT (LBS)
3			2015914		2015924	2015942			2015973	3 (A)
4			2015915		2015925	2015943			2015974	4 (B)
5					2015927	2015944			2015975	5 (C)
6			2015916		2015929	2015946			2015977	6 (D)
7			2015918		2015932	2015951			2015981	7 (E)
8			2015920		2015935	2015957			2015987	8 (F)
9			2015921		2015938	2015963			2015992	9 (J)
10					2015939	2015967			2015995	10 (K)
11					2015928	2015945			2015976	11 (CD)
12					2015930	2015947			2015978	12 (DD)
13			2015917		2015931	2015949			2015979	13 (DE)
14			2015919		2015933	2015952			2015982	14 (EE)
15					2015934	2015955			2015985	15 (EF)
16					2015936	2015958			2015988	16 (FF)
17					2015937	2015960			2015990	17 (FJ)
18						2015964			2015993	18 (JJ)
19						2015966			2015994	19 (JK)
20						2015968			2015996	20 (KK)
21						2015953			2015983	21 (EEE)
22						2015950			2015980	22 (DEJ)
23						2015954			2015984	23 (EEJ)
24						2015956			2015986	24 (EFJ)
25						2015959			2015989	25 (FFJ)
26						2015961			2015991	26 (FJJ)
27						2015965			2013337	27 (JJJ)
28						2003703		1888129	2013338	28 (JJK)
29						2003704		1888130	2013339	29 (JKK)
30						2003705		1888141	2013340	30 (KKK)
31						2003706		1888142	2003298	31 (DEJJ)
32								1888143		32 (DFJJ)
33						2003708		1888144	2003300	33 (EFJJ)
34						2003709		1888145	2003301	34 (FFJJ)
35						2003710		1888146	2003302	35 (FJJJ)
36								1888148		36 (JJJJ)
37									2003304	37 (KJJJ)
38										38 (KKJJ)
39									2003306	39 (KKKJ)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	14010	BALANCE SHOE	1
2	12377	ROTOR	1
3	14019-013	1/2" COIL HOLDER	1-4
4	SEE COIL DRAWING	COIL SPRING	1-4
5	SEE TABLE	BRAKE PAD	1
6	SEE TABLE	BALANCE SHOE SUBASSEMBLY (INCLUDES ROTOR AND PAD)	1

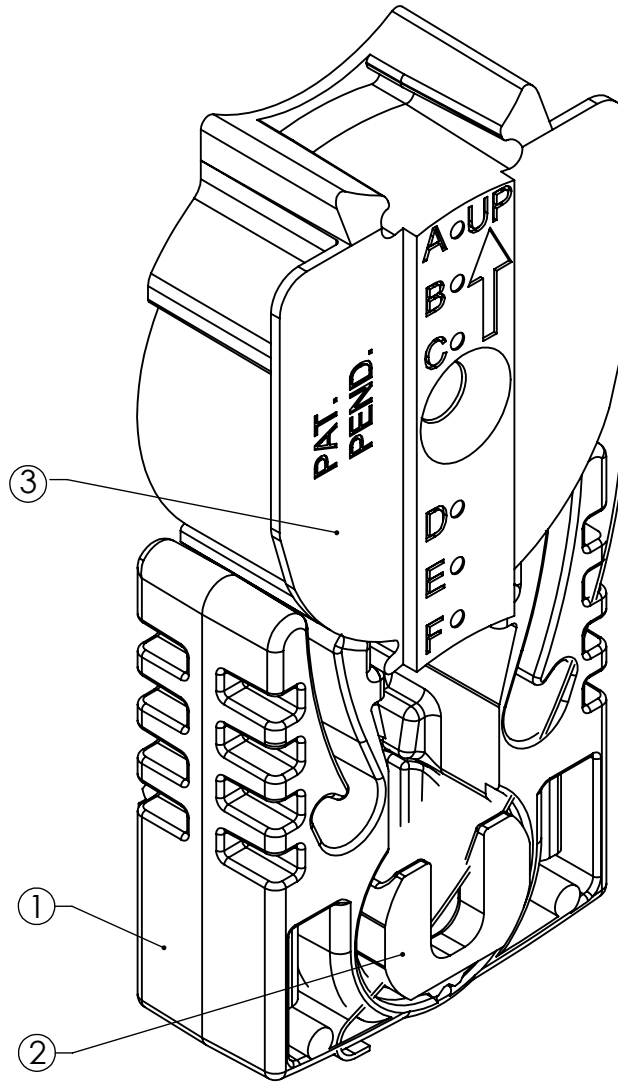
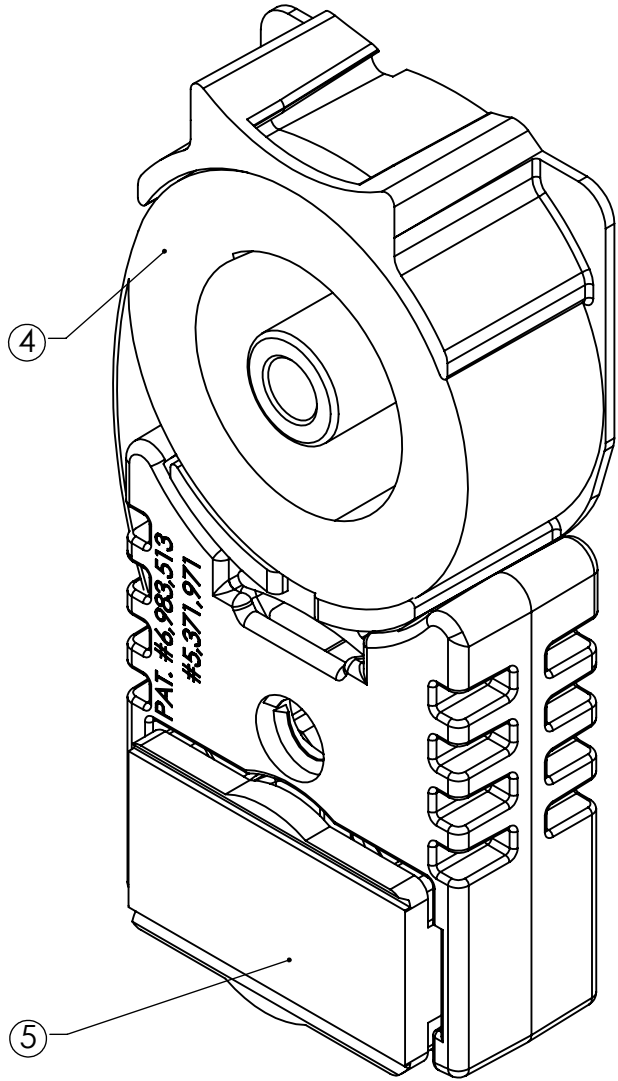
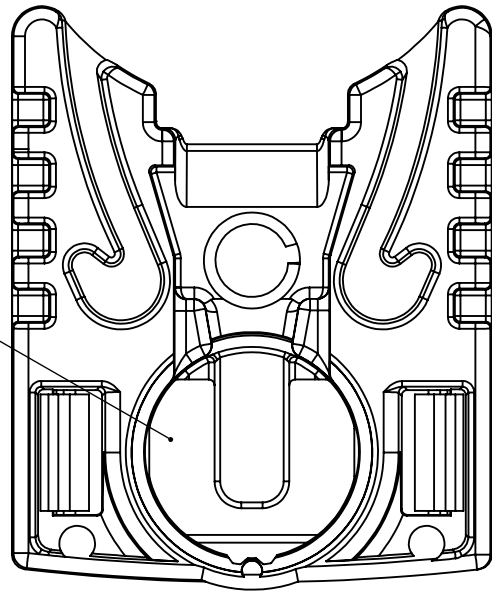


BRAKE PAD EXTENSION EXAMPLE
(COILS REMOVED)




EXTENDED BRAKE PAD
(SASH TILTED OPEN)

.085 GREEN PAD EXTENSION
(MEASURE CENTER OF PAD TO SHOE)

SEE NOTE 5



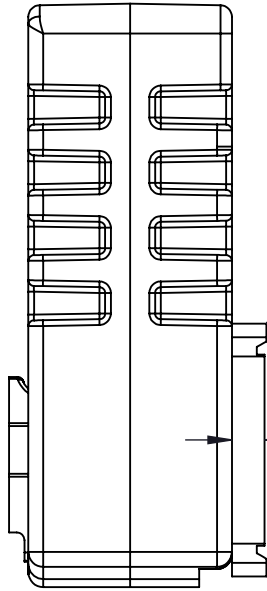
- NOTE:
- IF PART NUMBER IS MISSING, IT HAS NOT BEEN SET UP IN SAP.
 - IF PART NUMBER IS HIGHLIGHTED RED, IT IS INACTIVE IN SAP.
 - REFER TO COIL DRAWINGS FOR COIL SPRING PART NUMBERS AND INFO.
 - REFERENCE DRAWING 12073 FOR BRAKE PAD TECHNICAL DATA.
 - ROTOR/CAM MUST ROTATE FREELY IN THE SHOE ONCE ASSEMBLED.

MATERIAL:		<div><div>AmesburyTruth™</div><div>Engineered Solutions. Trusted Results.</div></div>		INTERPRET PER: ASME Y14.5M-2009		DRAWING TITLE: G3 0.5 Inch Balance Assemblies													
FINISH:				UNITS: INCH		DRAWN: C.ALLISON													
HEAT TREAT:				TOLERANCES UNLESS OTHERWISE SPECIFIED															
SURFACE AREA: IN²		WEIGHT: LBS		THE INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. THIS DRAWING IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT EXPRESS WRITTEN PERMISSION.		THIRD ANGLE PROJECTION		2 PL ± .015 3 PL ± .010 ANGULAR TOL. ±1°		CAD TYPE: SOLIDWORKS		SIZE: C		SCALE: 2:1		SHEET 1 OF 3		REV E	
														DRAWING #: G3 0.5 Inch					

BALANCE ASSEMBLY PART NUMBERS (EXTENDED POST COIL HOLDER)

	BRAKE PAD COLOR, EXTENSION, PAD PART NUMBER, SHOE SUB-ASSEMBLY PART NUMBER									
ASSEMBLY WEIGHT (LBS)	BLACK EXTENSION = .035" PAD # = 12158082 SHOE # = 81003ANA	WHITE EXTENSION = .045" PAD # = 12163081 SHOE # = NA	DUSK EXTENSION = .055" PAD # = 12147079 SHOE # = 81023ANA	BROWN EXTENSION = .065" PAD # = 12148085 SHOE # = NA	CADET BLUE EXTENSION = .075" PAD # = 12149083 SHOE # = 81043ANA	GREEN EXTENSION = .085" PAD # = 12150086 SHOE # = 81053ANA	TAN EXTENSION = .095" PAD # = 12142087 SHOE # = 81063ANA	CREAM EXTENSION = .105" PAD # = 12151180 SHOE # = 81073ANA	DESERT SAND (PINK) EXTENSION = .115" PAD # = 12152088 SHOE # = 81083ANA	ASSEMBLY WEIGHT (LBS)
3									2015997	3 (A)
4									2015998	4 (B)
5									2015999	5 (C)
6									2016001	6 (D)
7									2016004	7 (E)
8									2016007	8 (F)
9									2016010	9 (J)
10									2016013	10 (K)
11									2016000	11 (CD)
12									2016002	12 (DD)
13									2016003	13 (DE)
14									2016005	14 (EE)
15									2016006	15 (EF)
16									2016008	16 (FF)
17									2016009	17 (FJ)
18									2016011	18 (JJ)
19									2016012	19 (JK)
20									2016014	20 (KK)
21										21 (EEE)
22										22 (DEJ)
23										23 (EEJ)
24										24 (EFJ)
25										25 (FFJ)
26										26 (FJJ)
27										27 (JJJ)
28										28 (JJK)
29										29 (JKK)
30										30 (KKK)
31										31 (DEJJ)
32										32 (DFJJ)
33										33 (EFJJ)
34										34 (FFJJ)
35										35 (FJJJ)
36										36 (JJJJ)
37										37 (KJJJ)
38										38 (KKJJ)
39										39 (KKKJ)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	14010	BALANCE SHOE	1
2	12377	ROTOR	1
3	14224	1/2" COIL HOLDER (EXT POST)	1-4
4	SEE COIL DRAWING	COIL SPRING	1-4
5	SEE TABLE	BRAKE PAD	1
6	SEE TABLE	BALANCE SHOE SUBASSEMBLY (INCLUDES ROTOR AND PAD)	1



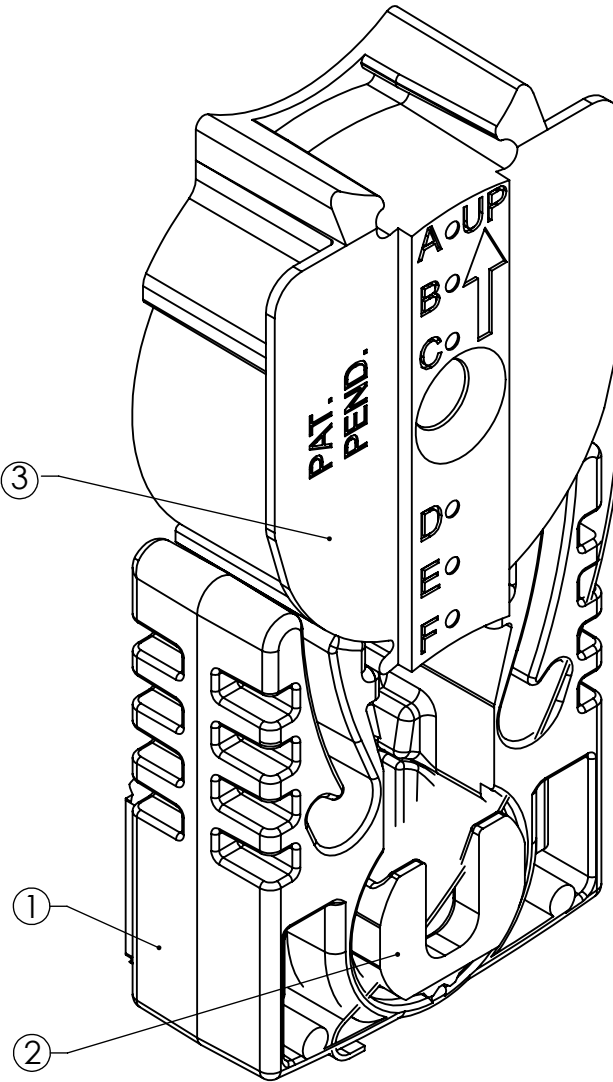
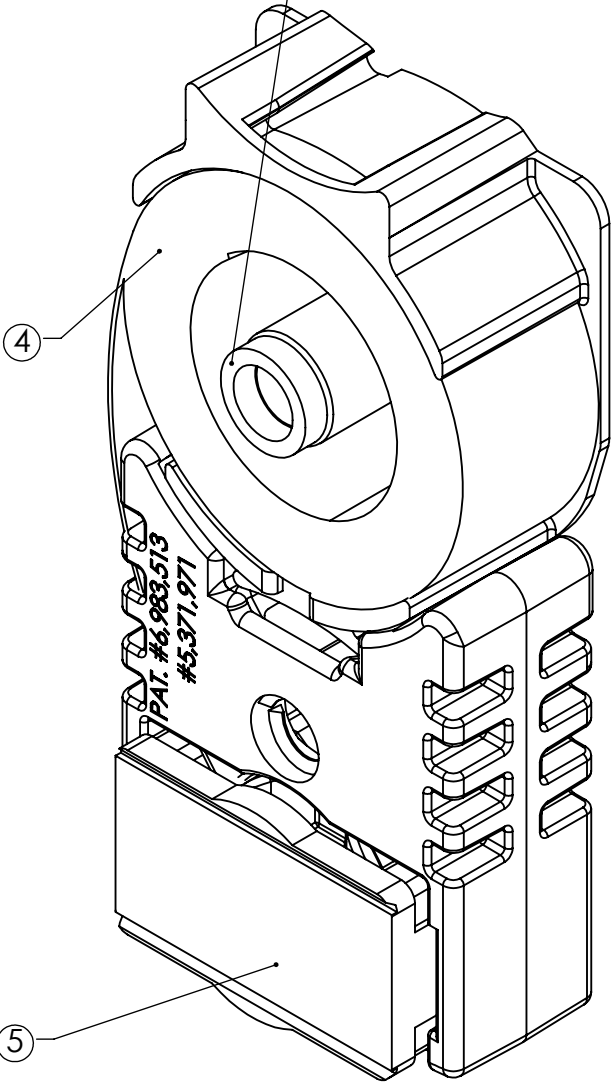
BRAKE PAD EXTENSION EXAMPLE (COILS REMOVED)

EXTENDED BRAKE PAD (SASH TILTED OPEN)



SEE NOTE 5

.085 GREEN PAD EXTENSION (MEASURE CENTER OF PAD TO SHOE)

THESE ASSEMBLIES USE THE EXTENDED POST COIL HOLDERS.



- NOTE:
- 1. IF PART NUMBER IS MISSING, IT HAS NOT BEEN SET UP IN SAP.
 - 2. IF PART NUMBER IS HIGHLIGHTED RED, IT IS INACTIVE IN SAP.
 - 3. REFER TO COIL DRAWINGS FOR COIL SPRING PART NUMBERS AND INFO.
 - 4. REFERENCE DRAWING 12073 FOR BRAKE PAD TECHNICAL DATA.
 - 5. ROTOR/CAM MUST ROTATE FREELY IN THE SHOE ONCE ASSEMBLED.

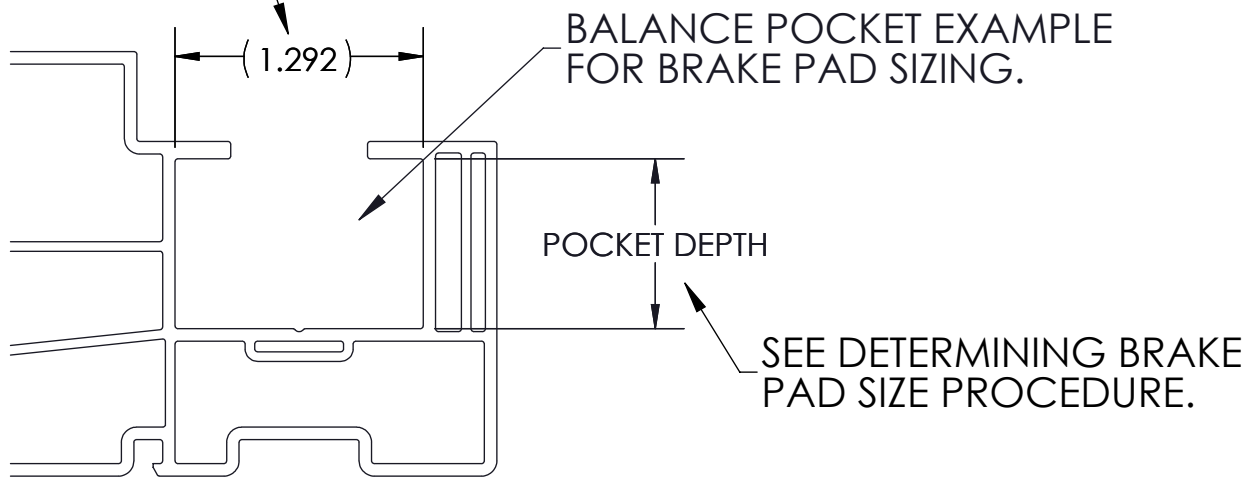
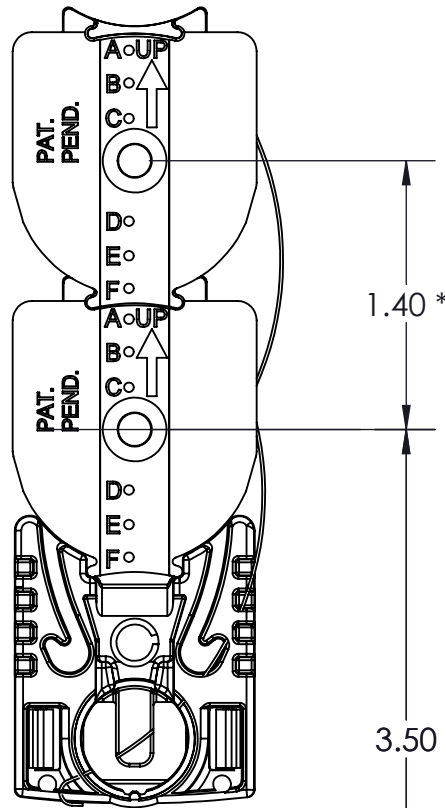
MATERIAL:		<div><div>AmesburyTruth™</div><div>Engineered Solutions. Trusted Results.</div></div>		INTERPRET PER: ASME Y14.5M-2009		DRAWING TITLE: G3 0.5 Inch Balance Assemblies													
FINISH:				UNITS: INCH		DRAWN: C.ALLISON													
HEAT TREAT:				TOLERANCES UNLESS OTHERWISE SPECIFIED															
SURFACE AREA: IN²		WEIGHT: LBS		THE INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. THIS DRAWING IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT EXPRESS WRITTEN PERMISSION.		THIRD ANGLE PROJECTION		2 PL. ± .015 3 PL. ± .010 ANGULAR TOL. ± 1°		DRAWN: C.ALLISON		ENG:							
								⬡ = CRITICAL DIMENSIONS		CAD TYPE: SOLIDWORKS		SIZE: C		SCALE: 2:1		SHEET 2 OF 3		REV E	
										DRAWING #: G3 0.5 Inch									

DETERMINING BRAKE PAD SIZE:

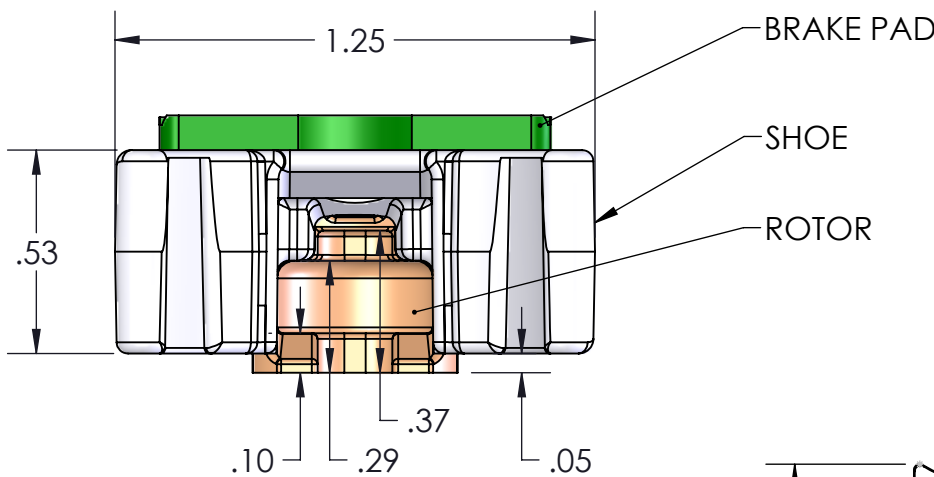
1. MEASURE THE INTERNAL DEPTH OF THE BALANCE POCKET.
 - EXAMPLE = 0.60".
2. ADD 0.03" TO THAT MEASUREMENT.
 - EXAMPLE = 0.60" + 0.03" = 0.63".
3. SUBTRACT 0.545" FROM THE VALUE FOUND IN STEP 2.
 - EXAMPLE = 0.63" - 0.545" = .085".
4. FIND THE BRAKE PAD EXTENSION ON THE 1ST SHEET THAT MOST CLOSELY CORRESPONDS TO THAT NUMBER.
 - EXAMPLE = .085" CORRESPONDS TO GREEN.
5. WHEN ORDERING SAMPLES, REQUEST THIS COLOR ALONG WITH ONE SIZE SMALLER AND ONE SIZE LARGER. IN THIS CASE, CADET BLUE AND TAN IN ADDITION TO GREEN.
6. ENSURE BRAKE PADS ARE PROPERLY SIZED BY INSTALLING A HEAVY WEIGHT BALANCE ASSEMBLY (>= 30LBS) INTO A JAMB.
7. EXTEND THE SHOE APPROXIMATELY 30" AND USE THE ROTOR TO ENGAGE THE BRAKE. CHECK FOR NO SLIPPAGE OR MOVEMENT OF THE SHOE.

NOMINAL EXAMPLE.
POCKET WIDTH IS NOT
CRITICAL FOR SHOE FUNCTION.

UPPER SASH BALANCE ASSEMBLY

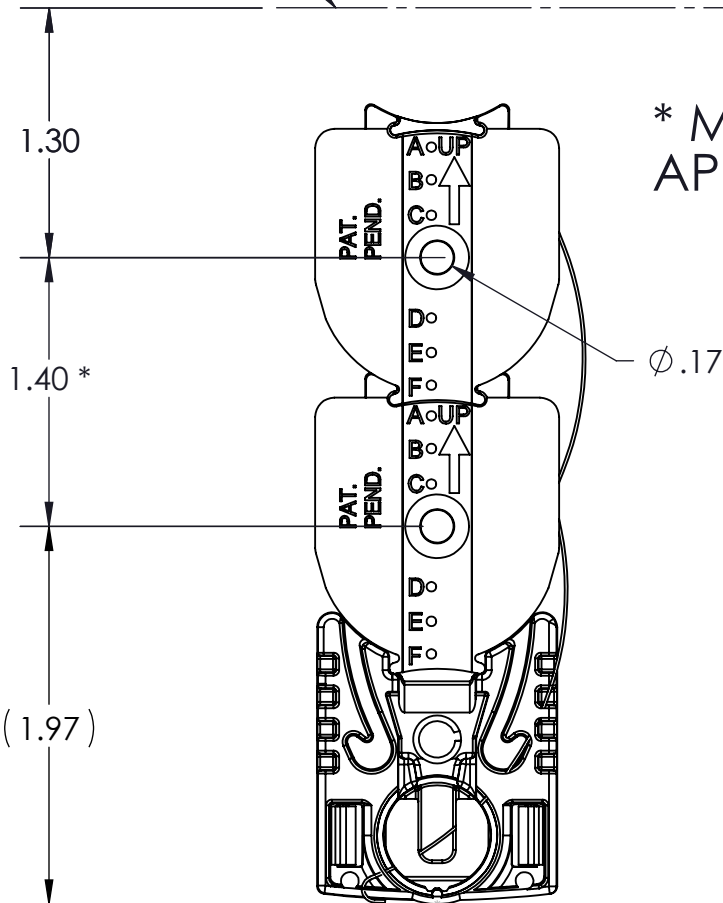


BALANCE SHOE END VIEW

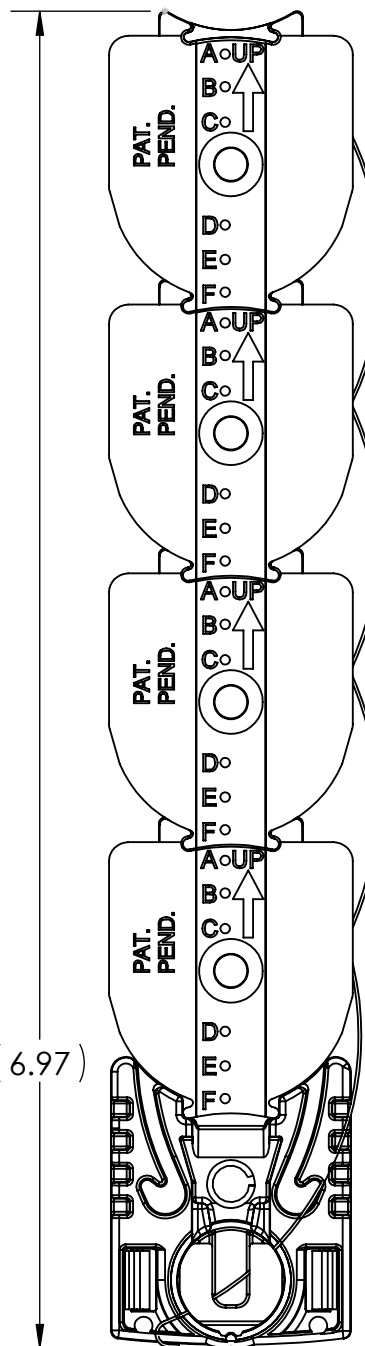
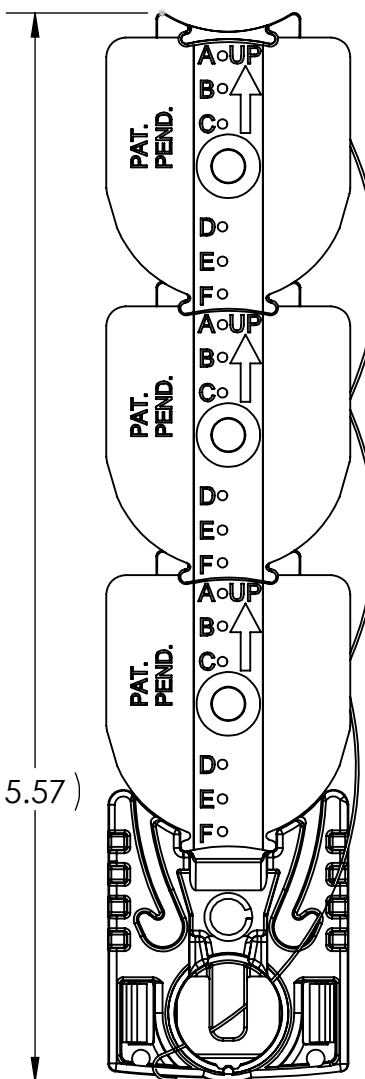
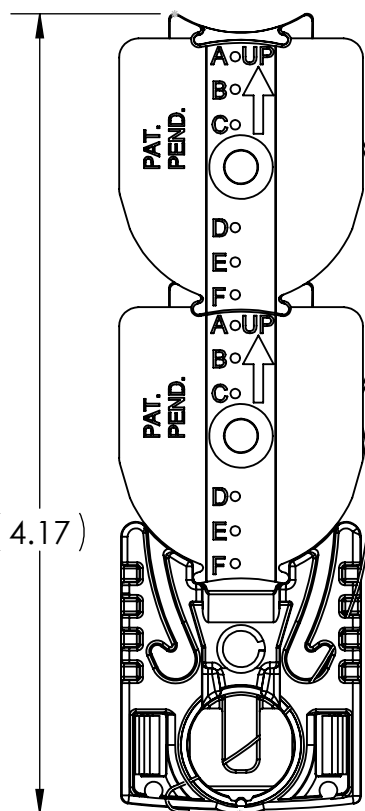
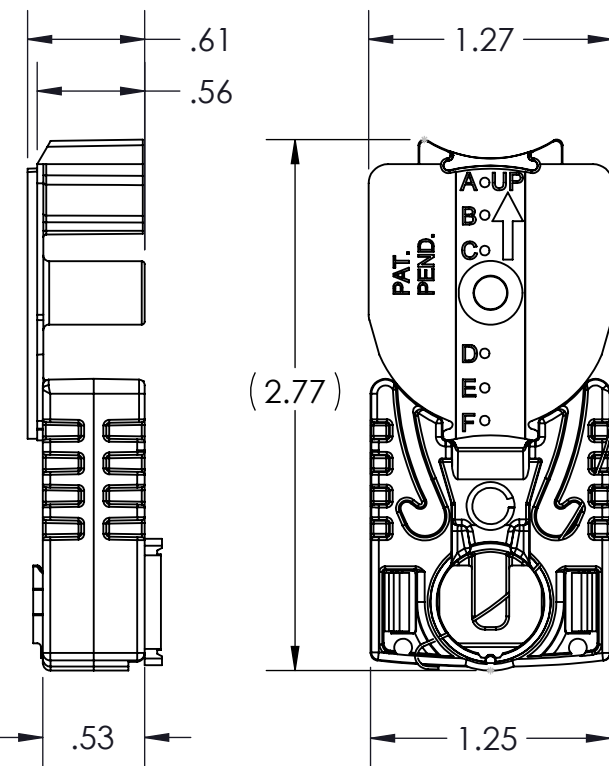


BOTTOM OF KEEPER RAIL

TOP OF LOCK RAIL



LOWER SASH BALANCE ASSEMBLY



BALANCE ASSEMBLY WEIGHT RANGE (LBS)

NOMINAL WEIGHT (Single Balance)	LOWER LIMIT (Complete System)	UPPER LIMIT (Complete System)
3	3.4	6.5
4	6.5	8.6
5	8.6	10.5
6	10.5	12.5
7	12.5	14.5
8	14.5	16.5
9	16.5	18.5
10	18.5	20.5
11	20.5	22.5
12	22.5	24.5
13	24.5	26.5
14	26.5	28.5
15	28.5	30.5
16	30.5	32.5
17	32.5	34.5
18	34.5	36.5
19	36.5	38.5
20	38.5	40.5
21	40.5	42.5
22	42.5	44.5
23	44.5	46.5
24	46.5	48.5
25	48.5	50.5
26	50.5	52.5
27	52.5	54.5
28	54.5	56.5
29	56.5	58.5
30	58.5	60.5
31	60.5	62.5
32	62.5	64.5
33	64.5	66.5
34	66.5	68.5
35	68.5	70.5
36	70.5	72.5
37	72.5	74.5
38	74.5	76.5
39	76.5	78.5

NOTE:

1. DIMENSIONS GIVEN SHOULD BE CONSIDERED A CLOSE APPROXIMATION AND MAY VARY FOR DIFFERENT WINDOW CONFIGURATIONS.
2. FOR PROPER FUNCTIONING OF THE COIL SPRING, THE SPRING HOLDER MUST BE LOCATED EXACTLY ON THE CENTER LINE OF THE BALANCE POCKET.
3. DIMENSIONS MARKED IN PARENTHESES ARE FOR REFERENCE ONLY.

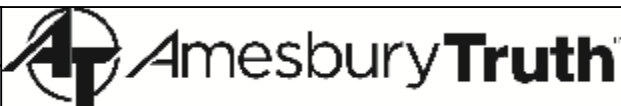
MATERIAL:

FINISH:

HEAT TREAT:

SURFACE AREA:
IN²

WEIGHT:
LBS



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THIRD ANGLE PROJECTION

INTERPRET PER:
ASME Y14.5M-2009

UNITS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED

2 PL. ± .015
3 PL. ± .010
ANGULAR TOL. ± 1°

○ = CRITICAL DIMENSIONS

DRAWING TITLE:
G3 0.5 Inch Balance Assemblies

DRAWN: C.ALLISON

ENG:

CAD TYPE:
SOLIDWORKS

SIZE:
C

SCALE: 1:1

SHEET 3 OF 3

REV E