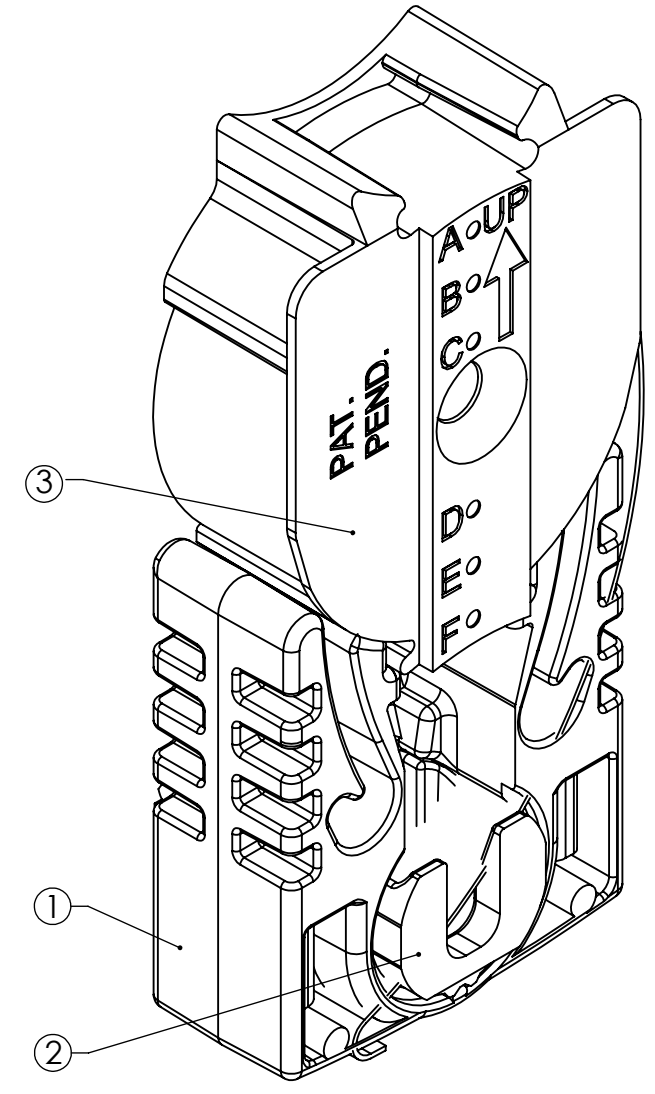
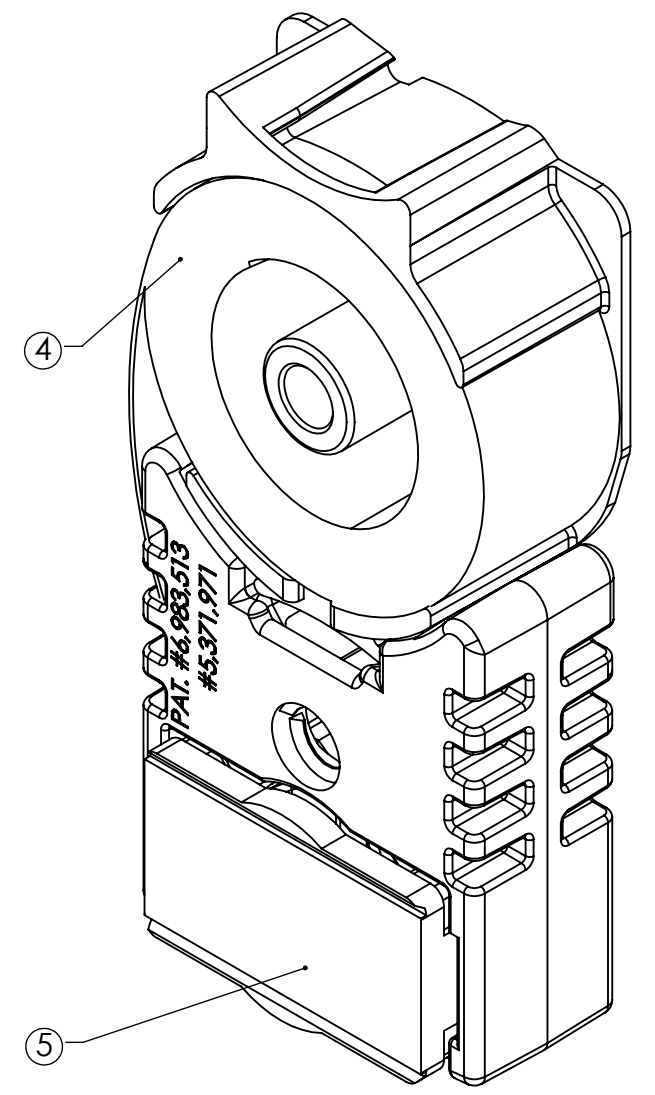


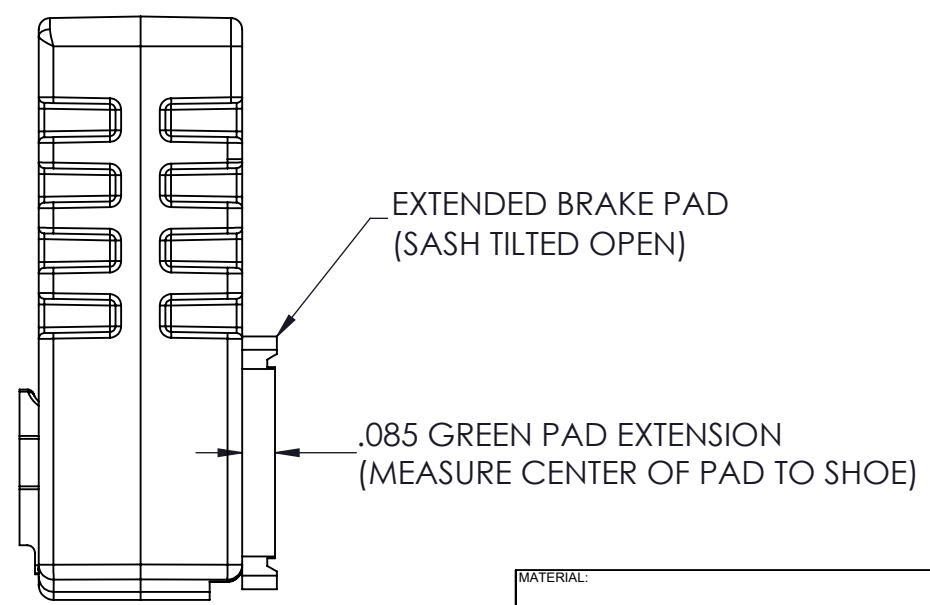
# BALANCE ASSEMBLY PART NUMBERS

ASSEMBLY WEIGHT (LBS)	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		
3			81023ANALA		81043ANALA	81053ANALA	2002827		81083ANALA	3	
4			81023ANALB		81043ANALB	81053ANALB	2002829		81083ANALB	4	
5			81023ANALC		81043ANALC	81053ANALC	2002830		81083ANALC	5	
6			81023ANALD		81043ANALD	81053ANALD	2002831		81083ANALD	6	
7			81023ANALE		81043ANALE	81053ANALE	2002832		81083ANALE	7	
8			81023ANALF		81043ANALF	81053ANALF	2002833		81083ANALF	8	
9			81023ANALJ		81043ANALJ	81053ANALJ	2002834	81073ANALJ	81083ANALJ	9	
10			81023ANALK		81043ANALK	81053ANALK	2002835		81083ANALK	10	
11			81023ANALCD		81043ANALCDL	81053ANALCD	2002836		81083ANALCD	11	
12			81023ANALDD		81043ANALDDL	81053ANALDD	2002837	81073ANALDD	81083ANALDD	12	
13			81023ANALDE		81043ANALDEL	81053ANALDE	2002838		81083ANALDE	13	
14			81023ANALEE		81043ANALEEL	81053ANALEE	2002839		81083ANALEE	14	
15			81023ANALEF		81043ANALEFL	81053ANALEF	2002840		81083ANALEF	15	
16			81023ANALFF		81043ANALFFL	81053ANALFF	2002841		81083ANALFF	16	
17			81023ANALFJ		81043ANALFJL	81053ANALFJ	2002842		81083ANALFJ	17	
18			81023ANALJJ		81043ANALJJL	81053ANALJJ	2002843		81083ANALJJ	18	
19						81053ANALJK	2002844		81083ANALJK	19	
20						81053ANALKK	2002845		81083ANALKK	20	
21						81053ANALEEE			81083ANALEEE	21	
22						81053ANALDEJ			81083ANALDEJ	22	
23						81053ANALEEJ			81083ANALEEJ	23	
24						81053ANALEFJ			81083ANALEFJ	24	
25						81053ANALFFJ			81083ANALFFJ	25	
26						81053ANALFJJ			81083ANALFJJ	26	
27						81053ANALJJJ			2013337	27	
28						2003703		2010172	2013338	28	
29						2003704		2010173	2013339	29	
30						2003705		2010171	2013340	30	
31						2003706		1888142	2003298	31	
32						2003707		1888143	2003299	32	
33						2003708		1888144	2003300	33	
34						2003709		1888145	2003301	34	
35						2003710		1888146	2003302	35	
36								1888148	2003303	36	
37									2003304	37	
38									2003305	38	
39									2003306	39	



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)

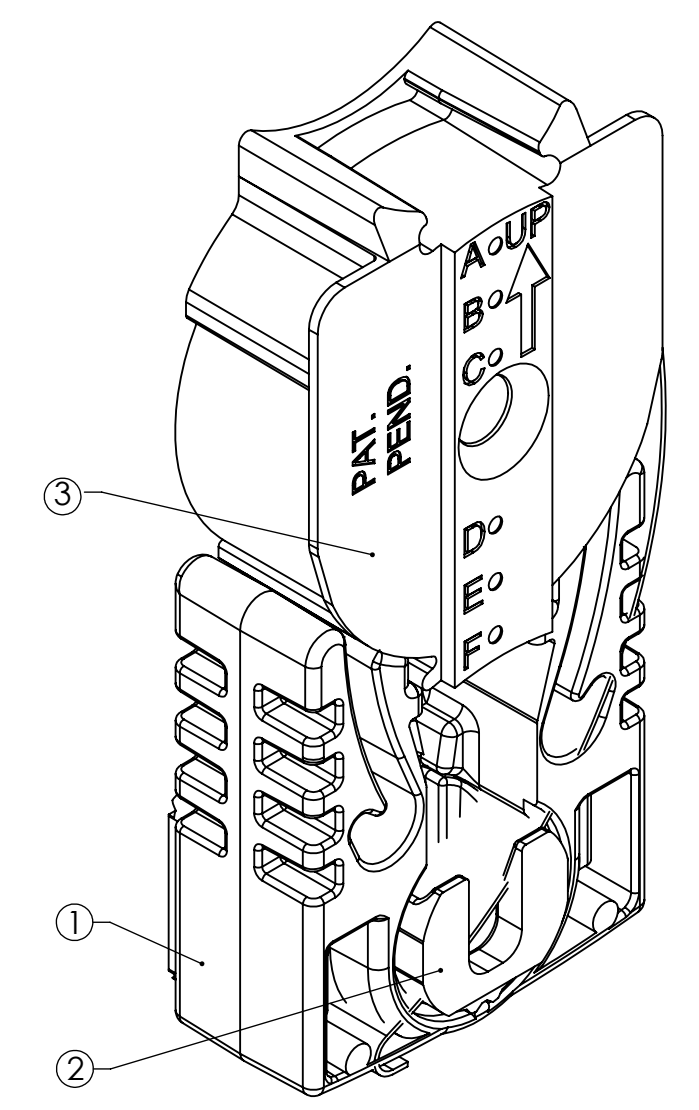
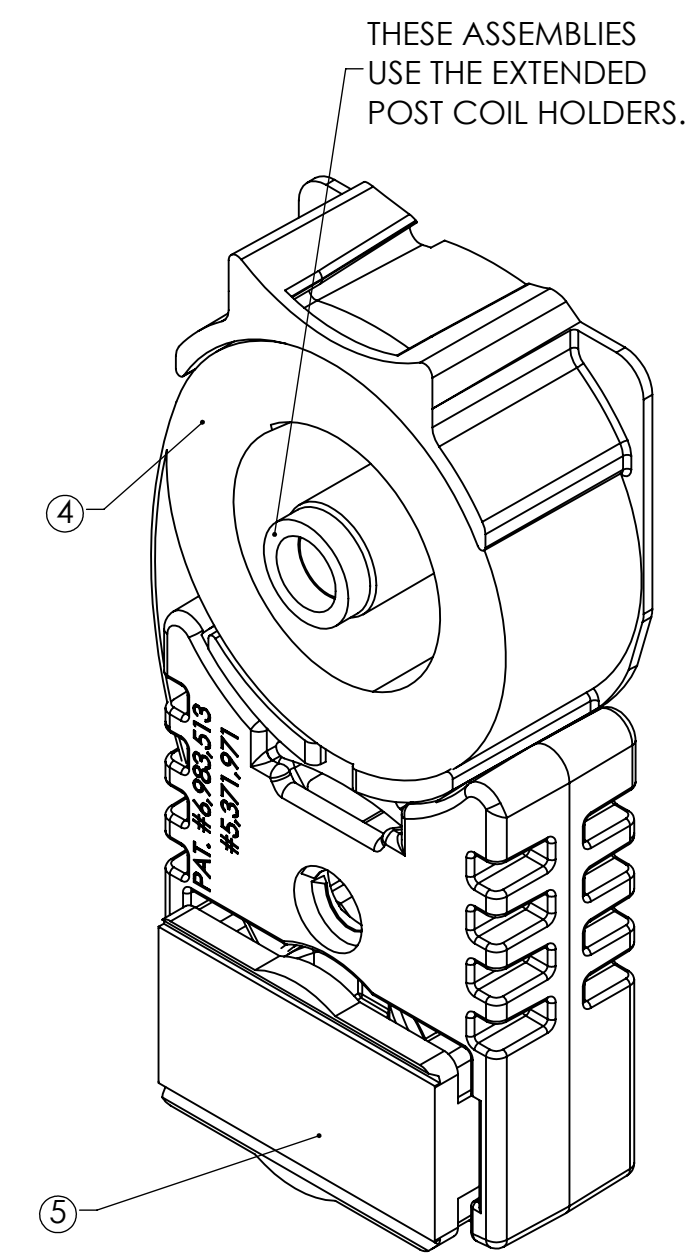


NOTE:  
 1. IF PART NUMBER IS MISSING, IT HAS NOT BEEN SET UP IN SAP.  
 2. IF PART NUMBER IS HIGHLIGHTED RED, IT IS INACTIVE IN SAP.  
 3. REFER TO COIL DRAWINGS FOR COIL SPRING PART NUMBERS AND INFO.

MATERIAL:	<b>Amesbury Truth</b> Engineered Solutions. Trusted Results.	INTERPRET PER: ASME Y14.5M-2009	DRAWING TITLE: G3 0.5 Inch Balance Assemblies		
FINISH:		UNITS: INCH	DRAWN: C.ALLISON	ENG:	
HEAT TREAT:	<small>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.</small>	TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PL. ± .015 3 PL. ± .010 ANGULAR TOL. ± 1°	CAD TYPE: SOLIDWORKS	SCALE: 2:1	SHEET 1 OF 3
SURFACE AREA: IN <sup>2</sup>	WEIGHT: LBS	THIRD ANGLE PROJECTION	DRAWING #: <b>G3 0.5 Inch</b>		REV A

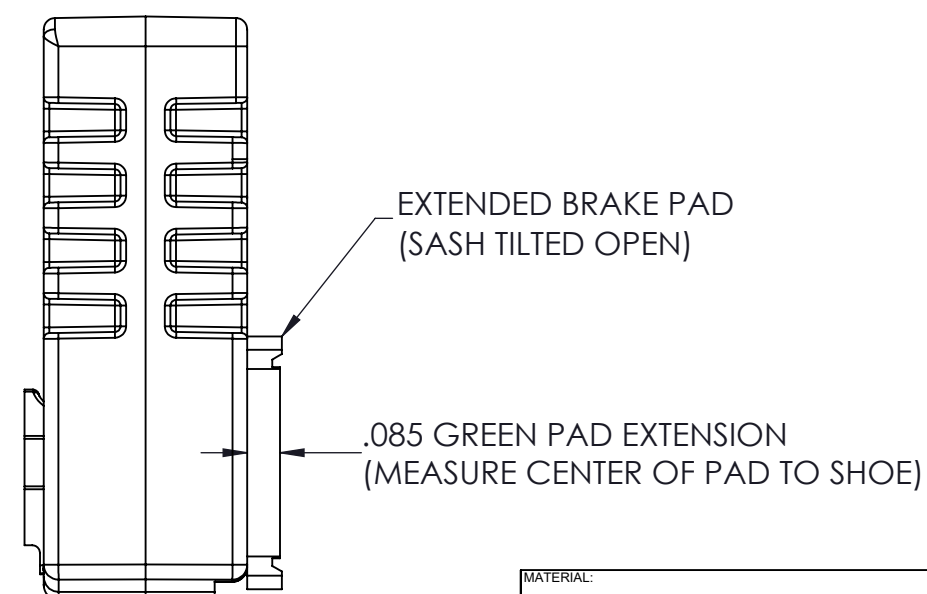
# BALANCE ASSEMBLY PART NUMBERS (EXTENDED POST COIL HOLDER)

ASSEMBLY WEIGHT (LBS)	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		
3									81083BNBLA	3	
4									81083BNBLB	4	
5									81083BNBLC	5	
6									81083BNBLD	6	
7									81083BNBLE	7	
8									81083BNBLF	8	
9									81083BNBLJ	9	
10									81083BNBLK	10	
11									81083BNBLCD	11	
12									81083BNBLDD	12	
13									81083BNBLDE	13	
14									81083BNBLEE	14	
15									81083BNBLEF	15	
16									81083BNBLFF	16	
17									81083BNBLFJ	17	
18									81083BNBLJJ	18	
19									81083BNBLJK	19	
20									81083BNBLKK	20	
21									81083BNLEEE	21	
22									81083BNLDEJ	22	
23									81083BNLEEJ	23	
24									81083BNLEFJ	24	
25									81083BNLFFJ	25	
26									81083BNLFFJ	26	
27										27	
28										28	
29										29	
30										30	
31										31	
32										32	
33										33	
34										34	
35										35	
36										36	
37										37	
38										38	
39										39	



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)



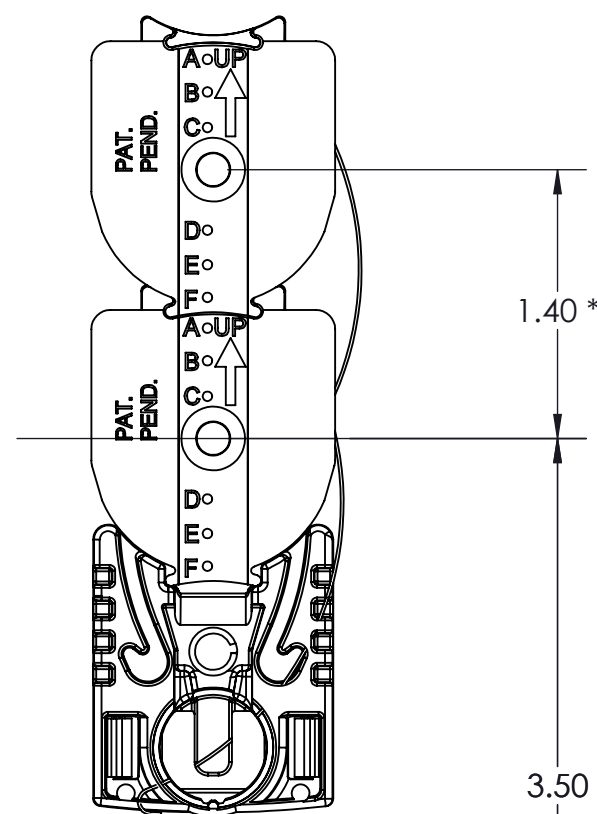
NOTE:  
 1. IF PART NUMBER IS MISSING, IT HAS NOT BEEN SET UP IN SAP.  
 2. IF PART NUMBER IS HIGHLIGHTED RED, IT IS INACTIVE IN SAP.  
 3. REFER TO COIL DRAWINGS FOR COIL SPRING PART NUMBERS AND INFO.

MATERIAL:	<b>Amesbury Truth</b> Engineered Solutions. Trusted Results.	INTERPRET PER: ASME Y14.5M-2009	DRAWING TITLE: G3 0.5 Inch Balance Assemblies	
FINISH:		UNITS: INCH	DRAWN: C.ALLISON	ENG:
HEAT TREAT:	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.	2 PL. ± .015 3 PL. ± .010 ANGULAR TOL. ± 1°	CAD TYPE: SOLIDWORKS	SCALE: 2:1
SURFACE AREA: IN <sup>2</sup>	WEIGHT: LBS	THIRD ANGLE PROJECTION	SHEET 2 OF 3	
			DRAWING #: <b>G3 0.5 Inch</b>	
		○ = CRITICAL DIMENSIONS	REV A	

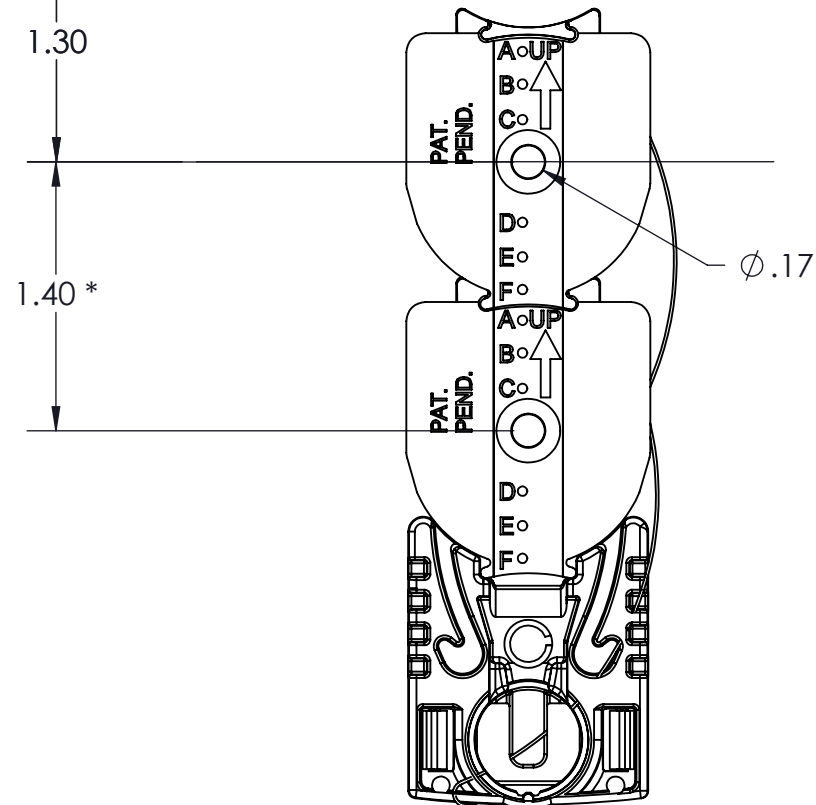
**DETERMINING BRAKE PAD SIZE:**

- MEASURE THE INTERNAL DEPTH OF THE BALANCE POCKET.
  - EXAMPLE = 0.60".
- ADD 0.030 TO THAT MEASUREMENT.
  - EXAMPLE = 0.60 + 0.03 = 0.63.
- SUBTRACT 0.545 FROM THE VALUE FOUND IN STEP 2.
  - EXAMPLE = 0.63 - 0.545 = .085.
- FIND THE BRAKE PAD EXTENSION ON THE 1ST SHEET THAT MOST CLOSELY CORRESPONDS TO THAT NUMBER.
  - EXAMPLE = .085 CORRESPONDS TO GREEN.
- 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.
- ENSURE BRAKE PADS ARE PROPERLY SIZED BY INSTALLING A HEAVY WEIGHT BALANCE ASSEMBLY (>= 30LBS) INTO A JAMB.
- EXTEND THE SHOE APPROXIMATELY 30" AND USE THE ROTOR TO ENGAGE THE BRAKE. CHECK FOR NO SLIPPAGE OR MOVEMENT OF THE SHOE.

UPPER SASH BALANCE ASSEMBLY

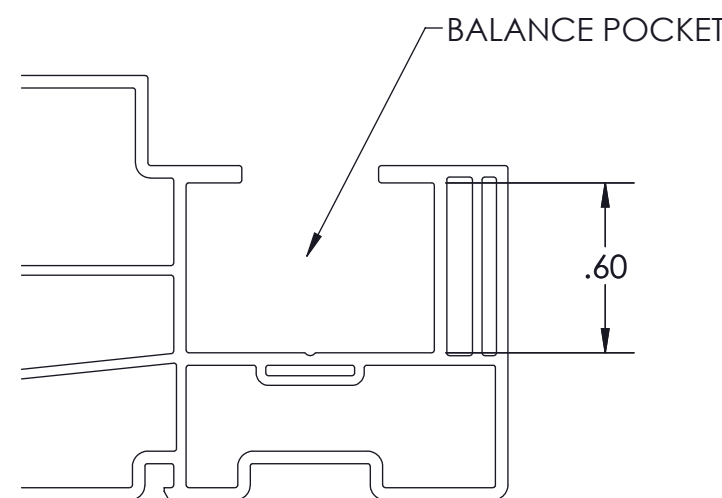


TOP OF LOCK RAIL ————— BOTTOM OF KEEPER RAIL



LOWER SASH BALANCE ASSEMBLY

\* MULTI-SPRING APPLICATIONS ONLY



**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:**

- DIMENSIONS GIVEN SHOULD BE CONSIDERED A CLOSE APPROXIMATION AND MAY VARY FOR DIFFERENT WINDOW CONFIGURATIONS.
- FOR PROPER FUNCTIONING OF THE COIL SPRING, THE SPRING HOLDER MUST BE LOCATED EXACTLY ON THE CENTER LINE OF THE BALANCE POCKET.

MATERIAL:	<p><b>Amesbury Truth</b> Engineered Solutions. Trusted Results.</p>	INTERPRET PER: ASME Y14.5M-2009	DRAWING TITLE: G3 0.5 Inch Balance Assemblies	
FINISH:		UNITS: INCH	DRAWN: C.ALLISON	
HEAT TREAT:	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.	TOLERANCES UNLESS OTHERWISE SPECIFIED:	SCALE: 1:1	SHEET 3 OF 3
SURFACE AREA: IN <sup>2</sup>		WEIGHT: LBS	2 PL. ± .015 3 PL. ± .010 ANGULAR TOL. ± 1°	CAD TYPE: SOLIDWORKS
		THIRD ANGLE PROJECTION	DRAWING #: <b>G3 0.5 Inch</b>	
			REV A	