

Operations Group Chairman Factual Report
Attachment 5 - Weight and Balance

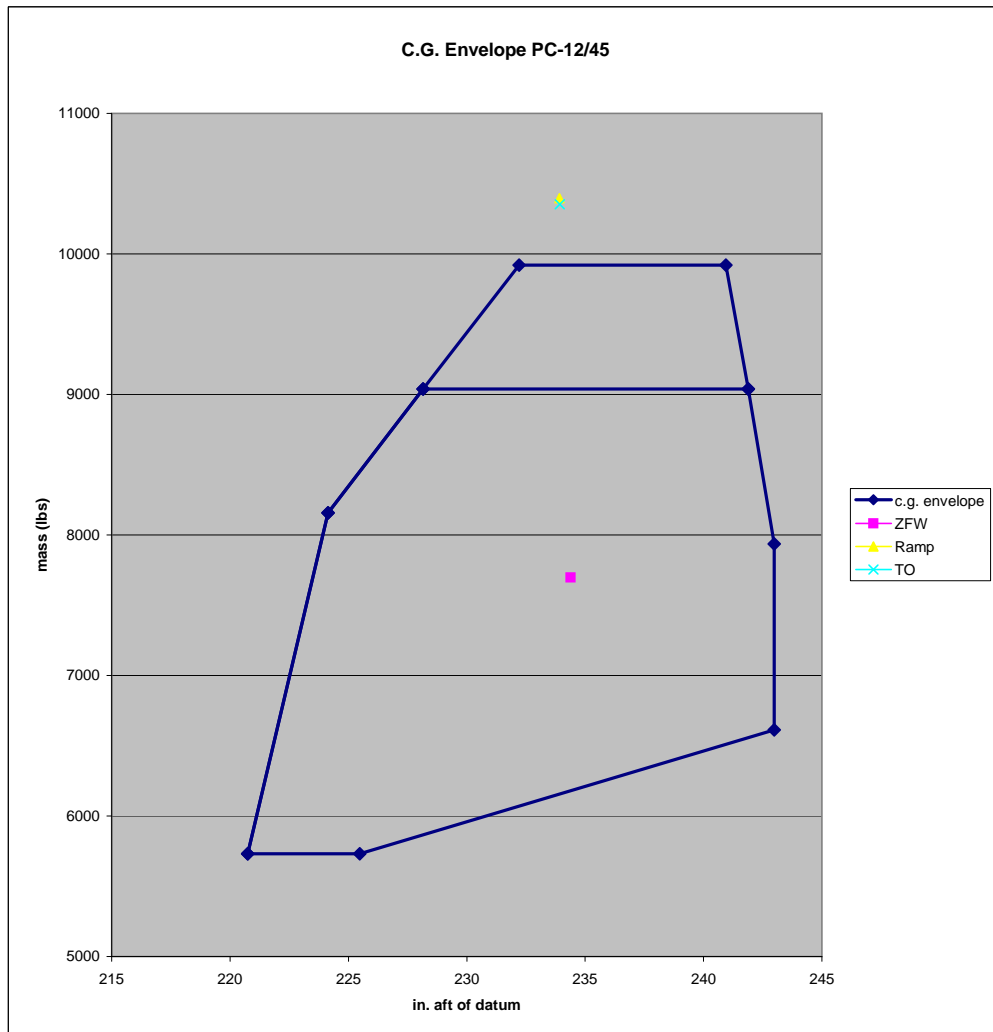
WPR09MA159

PC-12/45 MSN 403, N128CM, ESTIMATED WEIGHT & BALANCE

Flight: KVCB to KOVE		Mass	X - Arm	Moment
Date: 22nd March 2009		[lbs]	[in]	[in*lbs]
Empty a/c mass as weighed by Martin Aviation on 3rd Oct. 2005 Eexecutive interior code EX-6S-STD-2S		6314.6	230.580	1456022.77
Pilot				
Ellison Summerfield		160.0	160.270	25643.20
Copilot				
Michael Pullen		210.0	160.270	33656.70
PAX				
Amy Jacobsen	Seat 1	130.0	234.090	30431.70
Erin Jacobsen	Seat 2	180.0	234.090	42136.20
Sydney Pullen	Seat 3	180.0	276.120	49701.60
Vanessa Pullen	Seat 4	140.0	276.120	38656.80
Ava Jacobsen	Seat 5	30.0	308.120	9243.60
Taylor Jacobsen	Seat 6	40.0	308.120	12324.80
Christopher Pullen	Seat 7	55.0	341.000	18755.00
Jude Jacobsen	Seat 8	40.0	341.000	13640.00
Luggage				
	Seat 3	25.0	276.120	6903.00
	Seat 5	50.0	308.120	15406.00
	Seat 8	22.0	341.000	7502.00
				0.00
				0.00
				0.00
Luggage Area		120.0	366.000	43920.00
Fuel Mass (lbs)				
Zero Fuel Mass	0	7697	234.38	1803943
Total Ramp Condition (CG in inches aft of datum)	2700	10397	233.92	2431972
Take off mass (CG in inches aft of datum)	2656	10353	233.92	2421718

Fuel Load Moment Chart	
Weight (lbs)	Moment (in.lbs.)
100	22572
200	45161
300	67776
400	90443
500	113351
600	136538
700	159955
800	183555
900	207111
1000	230572
1100	253974
1200	277441
1300	300811
1400	324221
1500	347656
1600	371079
1700	394500
1800	417912
1900	441347
2000	464746
2100	488120
2200	511463
2300	534839
2400	558130
2500	581450
2600	604724
2700	628029

MTOW (lbs) 9921
Over MTOW (lbs) **432**



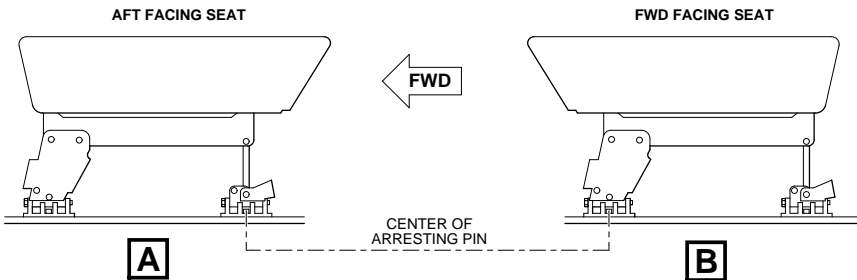
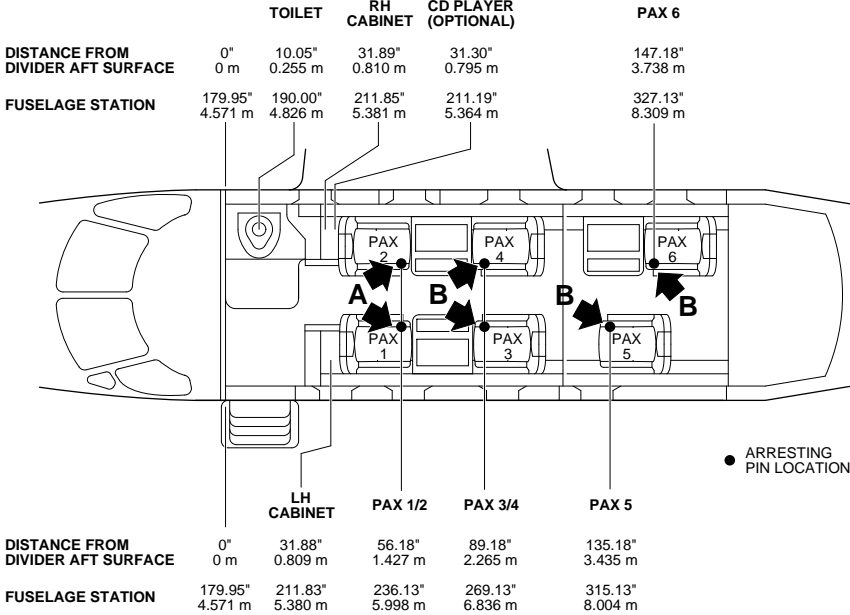
EXECUTIVE INTERIOR CODE EX 6S-2**GENERAL**

The basic Executive Interior consisting of 6 executive passenger seats. The section contains the following information:

- passenger seat location chart
- permitted passenger seat Part Nos. that can be installed
- passenger seats and furnishings weight and moment chart (standard and metric units)
- passenger seat occupant moment charts (standard and metric units)

EXECUTIVE INTERIOR CODE EX-6S-2

SEAT LOCATIONS



NOTE:
CABIN SEAT LOCATION IS DEFINED AS THE DISTANCE FROM THE AFT SURFACE ON THE FORWARD DIVIDER PANEL TO THE CENTER OF THE ARRESTING PIN ON EACH SEAT.

120099

EXECUTIVE INTERIOR CODE EX-6S-2

PERMITTED PASSENGER PART Nos. THAT CAN BE INSTALLED

		PC-12, PC-12/45 AND PC-12/47	
SEAT NO.	PACIFIC SCIENTIFIC RESTRAINT	SCHROTH RESTRAINT	
1	959.30.01.601	959.30.01.613 959.30.01.617 959.30.01.619 959.30.01.621 959.30.01.623	or 959.30.01.625 959.30.01.627 959.30.01.629 959.30.01.631
2	959.30.01.602	959.30.01.614 959.30.01.618 959.30.01.620 959.30.01.622 959.30.01.624	or 959.30.01.626 959.30.01.628 959.30.01.630 959.30.01.632
3, 5	959.30.01.609	959.30.01.615 959.30.01.633 959.30.01.635 959.30.01.637 959.30.01.639 959.30.01.641 959.30.01.643 959.30.01.645 959.30.01.647	or 959.30.01.649 959.30.01.651 959.30.01.653 959.30.01.655 959.30.01.657 959.30.01.659 959.30.01.661 959.30.01.663
4, 6	959.30.01.610	959.30.01.616 959.30.01.634 959.30.01.636 959.30.01.638 959.30.01.640 959.30.01.642 959.30.01.644 959.30.01.646 959.30.01.648	or 959.30.01.650 959.30.01.652 959.30.01.654 959.30.01.656 959.30.01.658 959.30.01.660 959.30.01.662 959.30.01.664

EXECUTIVE INTERIOR CODE EX-6S-2

PASSENGER SEATS AND FURNISHINGS WEIGHT AND MOMENT CHART

ITEM	WEIGHT LB (KG)	MOMENT LB/IN (KG/M)
PASS SEAT 1 OR 2	41.0 (18.6)	9431.0 (108.7)
PASS SEAT 3 OR 4	41.3 (18.75)	11540.0 (132.95)
PASS SEAT 5	41.3 (18.75)	13441.4 (154.86)
PASS SEAT 6	41.3 (18.75)	13937.5 (160.58)
TOILET	81.0 (36.7)	15390.0 (177.3)
LH CABINET	31.3 (14.2)	6630.3 (76.5)
RH CABINET	27.0 (12.3)	5720 (66.0)
CD PLAYER (optional)	5 (2.5)	1162 (13.41)
FR 24 CARGO NET	3.6 (1.65)	941 (10.96)
FR 27 CARGO NET	3.6 (1.65)	1049 (12.21)
FR 32 EXTENDABLE BAGGAGE NET	6.44 (2.92)	2325 (26.78)
FR 34 BAGGAGE NET	3.6 (1.65)	1335 (15.13)

Adjust the aircraft Basic Empty Weight on the Loading Form for items removed/added when converting to or from a Combi Interior Conversion.

When installing the extendable baggage net refer to Section 2 for the Luggage Limitations.

EXECUTIVE INTERIOR CODE EX-6S-2

PASSENGER SEAT OCCUPANT MOMENT CHART

PASSENGER SEAT OCCUPANT MOMENTS (LB - IN)				
WEIGHT	PAX 1/2	PAX 3/4	PAX 5	PAX 6
lb	234.09 in	276.12 in	322.13 in	334.12 in
50	11705	13806	16107	16706
60	14046	16567	19328	20047
70	16387	19329	22549	23388
80	18728	22090	25771	26729
90	21068	24851	28992	30070
100	23409	27612	32213	33412
110	25750	30374	35434	36753
120	28091	33135	38656	40094
130	30432	35896	41877	43435
140	32773	38657	45098	46776
150	35114	41419	48320	50117
160	37455	44180	51541	53459
170	39796	46941	54762	56800
180	42137	49702	57984	60141
190	44478	52464	61205	63482
200	46819	55225	64426	66823
210	49160	57986	67648	70164
220	51501	60747	70869	73506
230	53842	63508	74090	76847
240	56183	66270	77312	80188

EXECUTIVE INTERIOR CODE EX-6S-2

PASSENGER SEAT OCCUPANT MOMENT CHART

EXECUTIVE INTERIOR CODE EX 6S-2 PASSENGER SEAT OCCUPANT MOMENTS (KG - M)				
WEIGHT	PAX 1/2	PAX 3/4	PAX 5	PAX 6
kg	5.946 m	7.014 m	8.182 m	8.487 m
25	148.65	175.34	204.55	212.16
30	178.38	210.41	245.46	254.60
35	208.11	245.47	286.38	297.03
40	237.84	280.54	327.29	339.46
45	267.57	315.61	368.20	381.89
50	297.30	350.68	409.11	424.33
55	327.03	385.75	450.02	466.76
60	356.76	420.81	490.93	509.19
65	386.49	455.88	531.84	551.63
70	416.22	490.95	572.75	594.06
75	445.95	526.02	613.66	636.49
80	475.68	561.08	654.57	678.92
85	505.41	596.15	695.48	721.36
90	535.14	631.22	736.39	763.79
95	564.87	666.29	777.30	806.22
100	594.60	701.35	818.21	848.65
105	624.33	736.42	859.13	891.09
110	654.06	771.49	900.04	933.52
115	683.79	806.56	940.95	975.95
120	713.52	841.63	981.86	1018.39

EXECUTIVE INTERIOR CODE EX-6S-STD-2S**GENERAL**

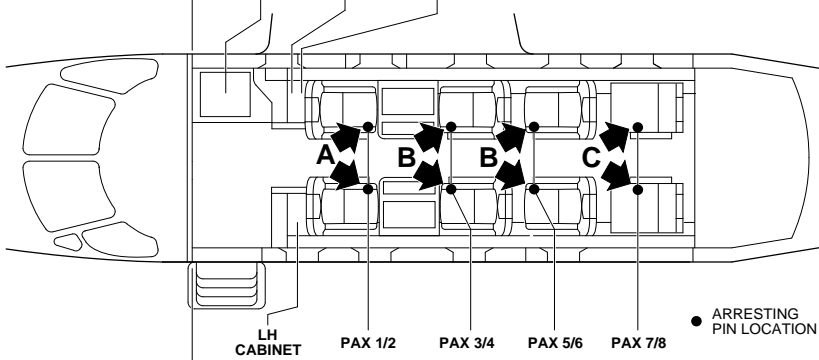
This configuration is a variation of the basic Executive interior and consists of 6 executive passenger seats and 2 standard seats. It is the operators responsibility to check before using this configuration whether they require authorization by their regulatory authority. The following information is given:

- passenger seat location chart
- permitted passenger seat Part Nos. that can be installed
- passenger seats and furnishings weight and moment chart
- passenger seat occupant moments (standard and metric units)

SIX EXECUTIVE AND TWO STANDARD INTERIOR CODE EX-6S-STD-2S

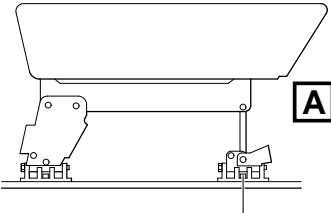
SEAT LOCATIONS

	LAVATORY/ WARDROBE	RH CABINET	CD PLAYER (OPTIONAL)
DISTANCE FROM DIVIDER AFT SURFACE	0" 0 m	10.05" 0.255 m	31.30" 0.795 m
FUSELAGE STATION	179.95" 4.571 m	190.00" 4.826 m	211.85" 5.381 m

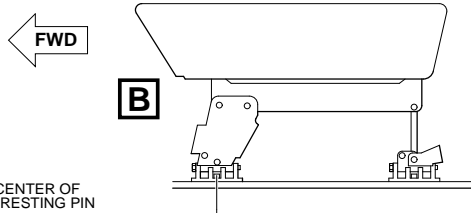


	LH CABINET	PAX 1/2	PAX 3/4	PAX 5/6	PAX 7/8
DISTANCE FROM DIVIDER AFT SURFACE	0" 0 m	31.88" 0.809 m	56.18" 1.427 m	89.18" 2.265 m	121.18" 3.078 m
FUSELAGE STATION	179.95" 4.571 m	211.83" 5.380 m	236.14" 5.998 m	269.13" 6.836 m	301.13" 7.649 m

AFT FACING SEAT



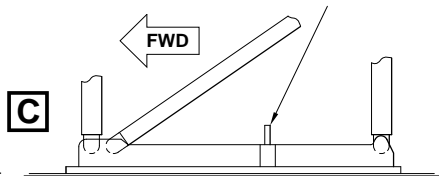
FWD FACING SEAT



CENTER OF
ARRESTING PIN

NOTE:
CABIN SEAT LOCATION IS DEFINED AS THE DISTANCE FROM THE AFT SURFACE ON THE FORWARD DIVIDER PANEL TO THE CENTER OF THE ARRESTING PIN ON EACH SEAT.

CENTER ARRESTING PIN



NOTE:
CABIN SEAT 7 AND 8 LOCATION IS DEFINED FROM THE CENTER OF THE CENTER ARRESTING PIN ON EACH SEAT.

120124

EXECUTIVE INTERIOR CODE EX-6S-STD-2S

PERMITTED PASSENGER SEAT PART Nos. THAT CAN BE INSTALLED

SEAT NO.	PC-12, PC-12/45 AND PC-12/47		
1	959.30.01.613 959.30.01.617 959.30.01.619 959.30.01.621 959.30.01.623	or	959.30.01.625 959.30.01.627 959.30.01.629 959.30.01.631
2	959.30.01.614 959.30.01.618 959.30.01.620 959.30.01.622 959.30.01.624	or	959.30.01.626 959.30.01.628 959.30.01.630 959.30.01.632
3, 5	959.30.01.615 959.30.01.633 959.30.01.635 959.30.01.637 959.30.01.639 959.30.01.641 959.30.01.643 959.30.01.645 959.30.01.647	or	959.30.01.649 959.30.01.651 959.30.01.653 959.30.01.655 959.30.01.657 959.30.01.659 959.30.01.661 959.30.01.663
4, 6	959.30.01.616 959.30.01.634 959.30.01.636 959.30.01.638 959.30.01.640 959.30.01.642 959.30.01.644 959.30.01.646 959.30.01.648	or	959.30.01.650 959.30.01.652 959.30.01.654 959.30.01.656 959.30.01.658 959.30.01.660 959.30.01.662 959.30.01.664
7	525.22.12.011		
8	525.22.12.012		

NOTE: The lap belt extension Part No. 959.30.01.588 or Part No. 959.30.01.590 can be installed on seats 7 and 8 only.

EXECUTIVE INTERIOR CODE EX-6S-STD-2S

PASSENGER SEATS AND FURNISHINGS WEIGHT AND MOMENT CHART

ITEM	WEIGHT LB (KG)	MOMENT LB/IN (KG/M)
PASS SEAT 1 OR 2	41.0 (18.6)	9431.6 (108.7)
PASS SEAT 3 OR 4	41.3 (18.75)	11540.0 (132.95)
PASS SEAT 5 OR 6	41.3 (18.75)	12862.7 (148.19)
PASS SEAT 7 OR 8	29.10 (13.2)	10024.3 (115.5)
TOILET or WARDROBE	81.0 (36.7) 45.0 (20.4)	15390 (177.3) 8595 (98.97)
LH CABINET	31.3 (14.2)	6630.3 (76.5)
RH CABINET	27.0 (12.3)	5720 (66.0)
CD PLAYER (optional)	5 (2.5)	1162 (13.41)
FR 24 CARGO NET	3.6 (1.65)	941 (10.96)
FR 27 CARGO NET	3.6 (1.65)	1049 (12.21)
FR 32 EXTENDABLE BAGGAGE NET	6.44 (2.92)	2325 (26.78)
FR 34 BAGGAGE NET	3.6 (1.65)	1335 (15.13)

Adjust the aircraft Basic Empty Weight on the Loading Form for items removed/added when converting to or from a Combi Interior Conversion.

When installing the extendable baggage net refer to Section 2 for the Luggage Limitations.

EXECUTIVE INTERIOR CODE EX-6S-STD-2S

PASSENGER SEAT OCCUPANT MOMENT CHART

PASSENGER SEAT OCCUPANT MOMENTS (LB - IN)				
WEIGHT	PAX 1/2	PAX 3/4	PAX 5/6	PAX 7/8
lb	234.09 in	276.12 in	308.12 in	341.00 in
50	11705	13806	15406	17050
60	14046	16567	18487	20460
70	16387	19329	21569	23870
80	18728	22090	24650	27280
90	21068	24851	27731	30690
100	23409	27612	30812	34100
110	25750	30374	33894	37510
120	28091	33135	36975	40920
130	30432	35896	40056	44330
140	32773	38657	43137	47740
150	35114	41419	46219	51150
160	37455	44180	49300	54560
170	39796	46941	52381	57970
180	42137	49702	55462	61380
190	44478	52464	58544	64790
200	46819	55225	61625	68200
210	49160	57986	64706	71610
220	51501	60747	67787	75020
230	53842	63508	70868	78430
240	56183	66270	73950	81840

EXECUTIVE INTERIOR CODE EX-6S-STD-2S

PASSENGER SEAT OCCUPANT MOMENT CHART

PASSENGER SEAT OCCUPANT MOMENTS (KG - M)				
WEIGHT	PAX 1/2	PAX 3/4	PAX 5/6	PAX 7/8
kg	5.946 m	7.014 m	7.826 m	8.661 m
25	148.65	175.34	195.66	216.54
30	178.38	210.41	234.79	259.84
35	208.11	245.47	273.92	303.15
40	237.84	280.84	313.05	346.46
45	267.57	315.61	352.19	389.76
50	297.30	350.68	391.32	433.07
55	327.03	385.75	430.45	476.38
60	356.76	420.81	469.58	519.68
65	386.49	455.88	508.71	562.99
70	416.22	490.95	547.84	606.30
75	445.95	526.02	586.98	649.61
80	475.68	561.08	626.11	692.91
85	505.41	596.15	665.24	736.22
90	535.14	631.22	704.37	779.53
95	564.87	666.29	743.50	822.83
100	594.60	701.35	782.63	866.14
105	624.33	736.42	821.77	909.45
110	654.06	771.49	860.90	952.75
115	683.79	806.56	900.03	996.06
120	713.52	841.63	939.16	1039.37