

AMSAFE AVIATION INFLATABLE RESTRAINT (AAIR®) SYSTEM

WEIGHT AND BALANCE INFORMATION

V23 Three-Point Restraint with Dual Sensor EMA Version

for

Installation on Zenair Model CH2000 Aircraft

FAA STC Project Number ST10235LA-A

Prepared for:

Federal Aviation Administration
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Revision History

Rev Level	Date	Description	Approved
NC	7 Apr. 04	Initial Issue	JC



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This document gives the Weight and Balance information regarding the AAIR System as it is installed in the aircraft under this STC.

Item	P/N	Weight		Arm	
		kg	lbs	m	inches
Pilot Seatbelt Airbag Assembly (SAA)*	7032-1-021-2396	.82	1.80	.30	+12
Copilot Seatbelt Airbag Assembly (SAA)*	7032-1-011-2396	.82	1.80	.30	+12
EMA	508358-409	.25	.56	.43	+17
Pilot Inflator	508538-401	.67	1.47	.61	+24
Copilot Inflator	508538-401	.67	1.47	.61	+24
Pilot – three-point airbag belt inertial reel	7032-2040212396**	.41	.90	.79	+31
Copilot - three-point airbag belt inertial reel	7032-2030112396**	.41	.90	.79	+31
Cable Interface Assembly	508420-201	.14	.30	.61	+24
Subtotal AAIR System		4.19	9.2	.51	20.2
Removed Restraint System (Pilot and Copilot)		1.45	3.19	0.3	12
Total Net Change		2.74	6.01	.63	24.6
Total Moment Change		1.716 m-kg		148.0 in-lb	

*Weight of SAA (three-point airbag belt and end-release buckle assembly) minus the inertial reel.

**The inertial reels are part of the three-point airbag belt which is the part number referenced.