Zhuhai Xiang Yi Aviation Technology Co., Ltd.

Embraer EMB145FFS

Technical information

ZHUHAI FLIGHT TRAINING CENTER

Content:

- **General Information**

SIMULATOR: EMB145FFS

Manufacture:	CAE Inc. Montreal, Canada
Computer:	IBM PC X235
Certification:	Level D, Semi-Annually qualified by CAAC
In Service Date:	2005.6
Location:	Zhuhai, Guangdong, P.R. of China

VISUAL:

Manufacturer:	CAE Inc. Montreal, Canada
Computer:	Three 19-Inch Rackmount Industrial PCs
Type of Image Generator:	TROPOS 300
Type of Display:	BARCO 5064 Field of View: 40°×180°
Illumination Levels:	Day/Dusk/Dawn/Night

INSTRUCTOR STATION:

Manufacturer:	CAE Inc. Montreal, Canada
Computer:	2 NCD Color HMX X-Terminal Computer
Type:	2x15" color touch-sensitive LCDs and additional pushbuttons

MOTION AND CONTROL LOADING:

Manufacturer:	CAE Inc. Montreal, Canada
Type:	CAE 600 Series with Digital Motion and Control Loading, Motion 6 DOF

SPECIAL TRAINING AIDS:

TCAS:	Available
ACARS:	Available
GPS:	Available
RNP	Not Available
ATIS:	Available
EGPWS	Available
Windshear training:	Available
Number of Malfunctions:	More than 220
Automated Lessons for:	Transition training
	Base Check
	Line Oriented Flight Training (LOFT)
	Recurrent
	Customer specified lessons available on request

• General Information   cont'd

<u>**DATA PACKAGES:**</u>

Aerodynamic Data Revision:	EMB Docment 145-AD-304 Vol 6 Aero Data Bank Version 3L
Engine Model and Data Revision:	Allison Engines AE 3007A1 CAE Performance Model FADEC version 7.6
Flight Controls Data Revision:	EMB Docment 145-AD-304 Vol 4 EMB Docment 145-AD-304 Vol 6 Hinge Moment Data Version 3E
Flight Management System:	Dual Universal 1K FMS - FMC: Universal P/N 1116-42-1116M604 CDU: Universal P/N 1117-1-104
	Single Honeywell Primus NZ-2000 FMS - FMC: Honeywell P/N 7018879-02006MC CDU: Honeywell P/N 7007549-901
	DU: Honeywell P/N 7014300-901 IC-600: Honeywell P/N 7017000-82430, 7017000-83430 GC-550: Honeywell P/N 7021170-951 DC-550: Honeywell P/N 7016986-505

<u>**SIMULATATED AIRPLANES:**</u>

Airplane Model:	EMB-145
MTOW:	22,000KGS
MLW:	193,00KGS
MZFW:	17,900KGS
Attitude Callouts:	500,100,50,40,30,20,10,Minimums Different Callout types are available on request
Cockpit Layout:	EMBRAER EMB-145 Tail number:701

<u>**AIRCRAFT TYPE / ENGINE:**</u>

Engine Manufacturer:	Allison Engines
Supplied Combinations:	EMB-145 with AE3007A1 Rating 7426LBS

• Update Information

Simulator Updates have been done since RFT:

Not Applicable

• **Visual Databases**

Certificate scenes

The certificate scenes are Beijing/Capital (ZBAA), Shanghai/Pudong (ZSPD) and Hong Kong Intl (VHHH).

Including the certificate scenes, the following airports are selected from the instructor station for training:

Real airports

Taiwan Taoyuan Intl	(RCTP)	Narita/Tokyo	(RJAA)
Kansai Intl	(RJBB)	Fukuoka	(RJFF)
Tokyo Intl	(RJTT)	Seoul/Incheon	(RKSI)
Kimpo Intl	(RKSS)	Manila/Ninoy Aquino Intl	(RPLL)
Hong Kong Intl	(VHHH)	Macau	(VMCC)
Bangkok Intl	(VTBD)	Soekarno-Hatta Intl	(WIII)
Singapore/Changi	(WSSS)	Brisbane	(YBBN)
Melbourne	(YMML)	Sydney	(YSSY)
Beijing/Capital	(ZBAA)	Zhangjiajie/Hehua	(ZGDY)
Guangzhou/Baiyun	(ZGGG)	Guilin/Liangjiang	(ZGKL)
Zhuhai/Sanzao	(ZGSD)	Shenzhen/Huangtian	(ZLSZ)
Wuhan/Tianhe	(ZHHH)	Nanyang/Jiangying	(ZHNY)
Xi'an/Xianyang	(ZLXY)	Kunming/Wujiaba	(ZPPP)
Gaoqi/Xiamen	(ZSAM)	Ganzhou/Huangjin	(ZSGZ)
Hangzhou/jianqiao	(ZSPD)	Shanghai/Hongqiao	(ZSSS)
Wuyishan	(ZSWY)	Yantai/Laishan	(ZSYT)
Chongqing	(ZUCK)	Lhasa/Gongga	(ZULS)
Chengdu	(ZUUU)	Urumqi/Diwopu	(ZWWW)
Dalian/Zhoushuizi	(ZYTL)		

Generic airports

Generic airport is reconfigurable, allowing the instructor to create a variety of training environments through the simple manipulation of database elements, such as mountains, cities, terminals, PAPI/VASI…

Navigation Database

The present used navigation database is base on the training for China Southern Airlines pilots.

On request it might be possible to use different databases, if they are compatible to our system.
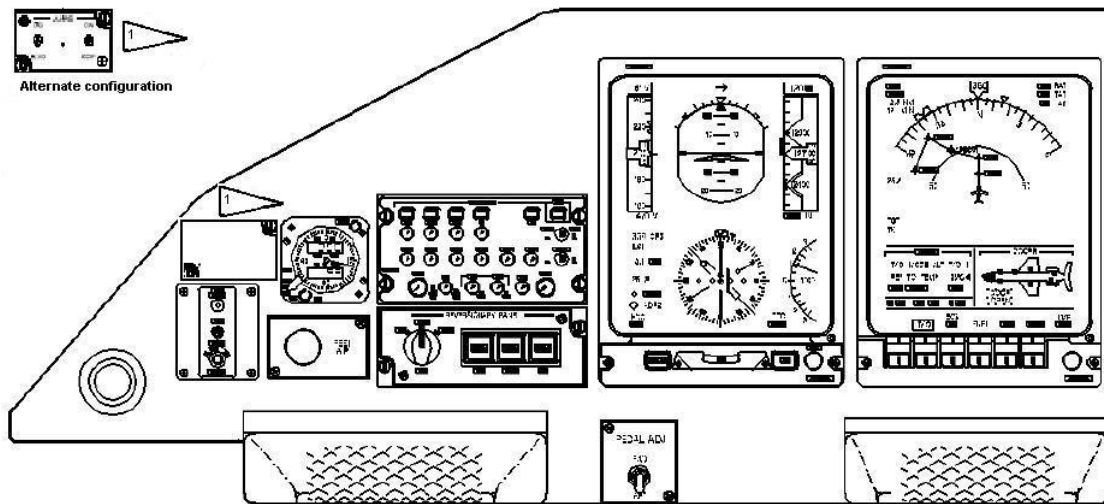
However, the use of different navigation databases has to be agreed with Xiang Yi Flight Training's engineering department in advance.
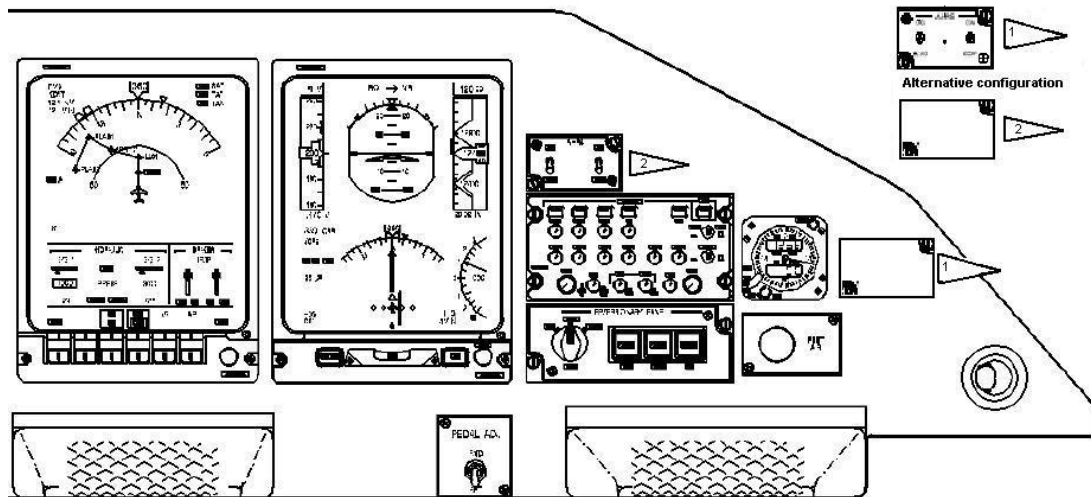
- **Instructor Station Layout**
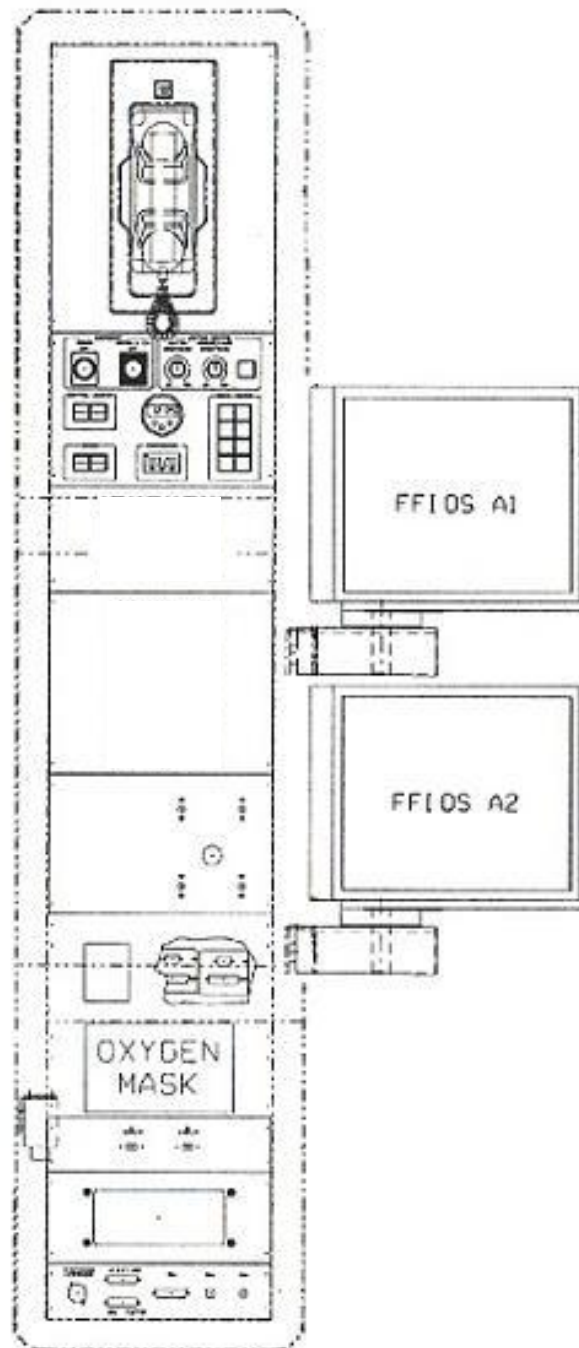
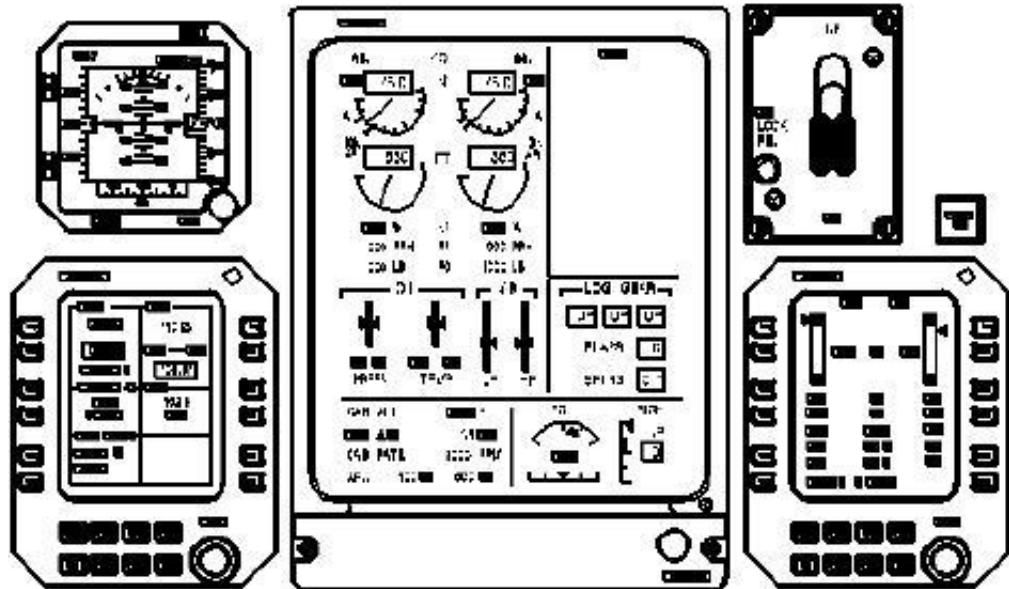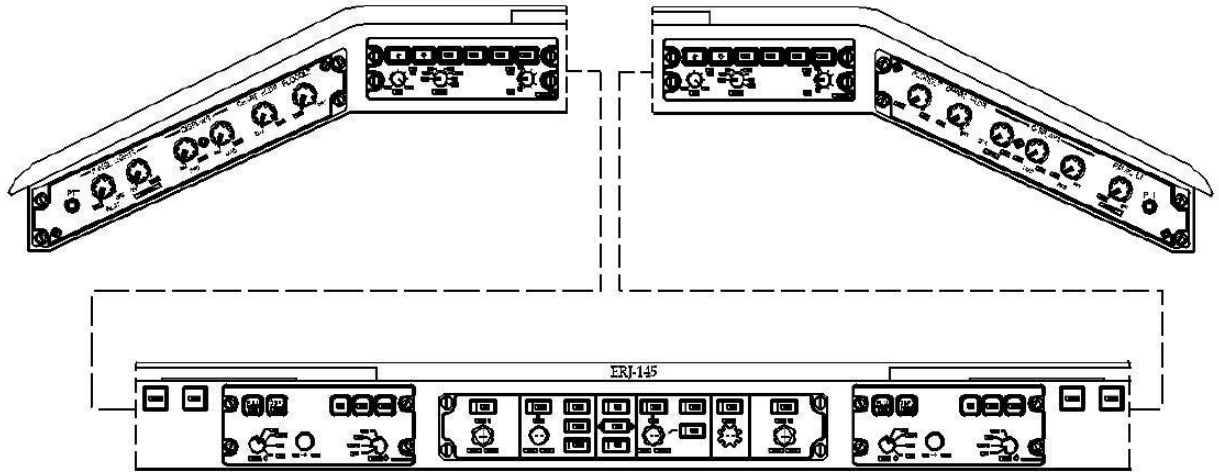- # Cockpit Layout

Captain's Panel

Alternate configuration

- **Cockpit Layout   cont'd**

First Officer's Panel

Alternative configuration

- **Cockpit Layout   cont'd**

Pilot's Lightshield and Center Panel

- **Cockpit Layout   cont'd**

Overhead Panel

- ## **Cockpit Layout   cont'd**

Pedestal Panel

Alternate configuration

Alternate configuration

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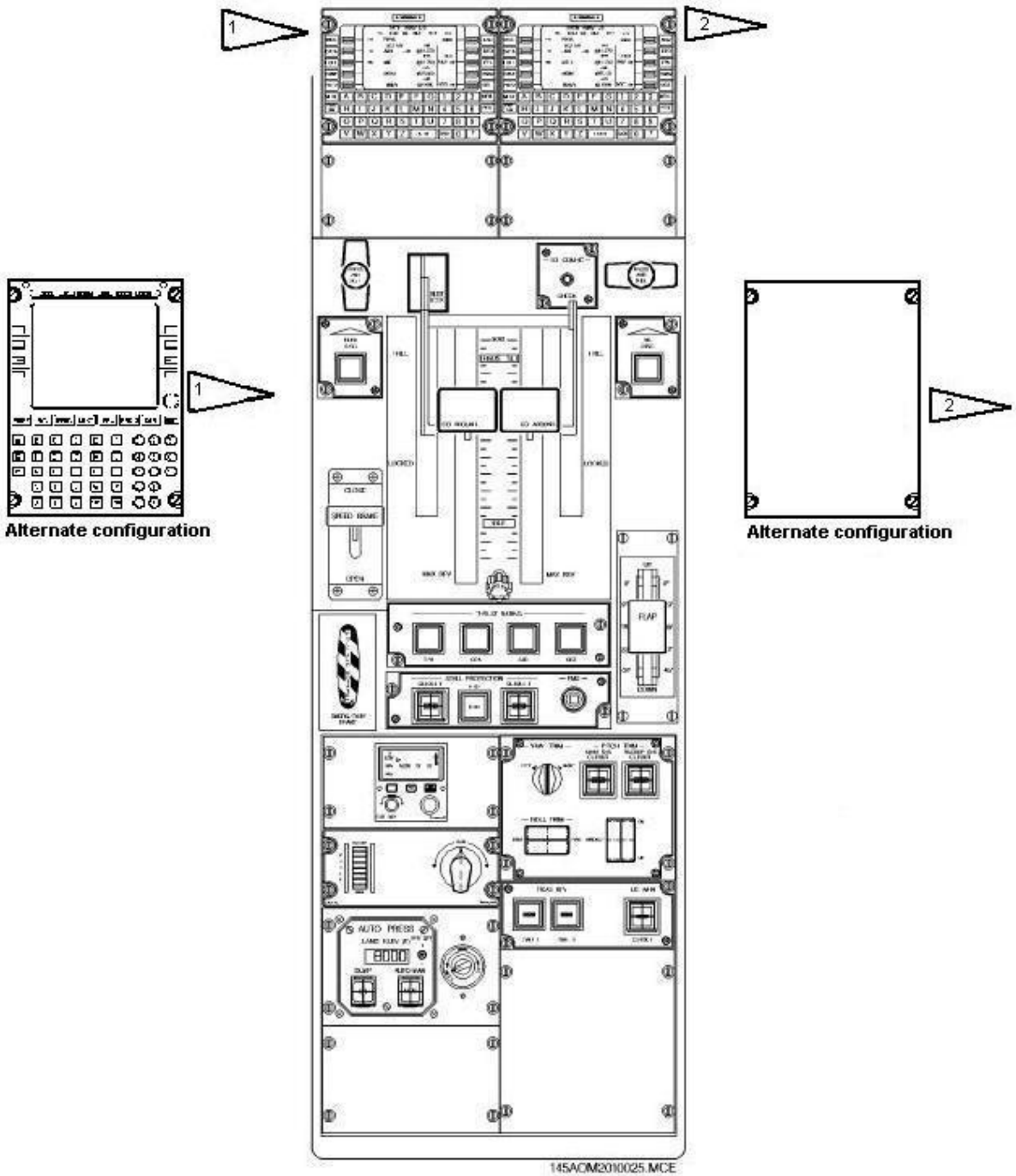
• **Aircraft Avionic**

			件号	*供货商*	*版本*
Original Aircraft Box	RMU		7013270-965	HONEYWELL	Mod E
	CDU		1117-1-104	UNIVERSAL	
	FMC		1116-42-1116M604	UNIVERSAL	
	CDU		7007549-901	HONEYWELL	(Alternate Config)
	FMC		7018879-02006MC	HONEYWELL	(Alternate Config)
	IC-600 #1		7017000-82430	HONEYWELL	EICAS 20.5
	IC-600 #2		7017000-83430	HONEYWELL	EICAS 20.5
	GC-550		7021170-951	HONEYWELL	Mod A
	DC-550		7016986-505	HONEYWELL	
	PC-400		7003897-925	HONEYWELL	
	AWU		80-694-2-5	GRIMES	Rev J
	DU		7014300-901	HONEYWELL	
	ISIS		333MFD1-1	SMITH	
	EGPWS		965-0976-003-202-202	HONEYWELL	
	ACARS		1065-11-010	UNIVERSAL	SCN12
Simulated Aircraft Box	AHRS		HG2011AC03	HONEYWELL	AHRS 900
	AHRS		HG2010AC02	HONEYWELL	AHRS 800 (Alternate Config)
	ADC		7014700-626	HONEYWELL	
	SPC		0020BN4	ROSEMOUNT	Mod HW
	HSCU		362100-1013	PARKER HANNIFIN	
	FECU		363100-1009	PARKER HANNIFIN	
	DAU		7013348-949	HONEYWELL	
	TCAS		7017900-55003	HONEYWELL	