



JOEL PLAICE & ASSOCIATES INC.

INTERNATIONAL SIMULATOR CONSULTING AND TECHNICAL SUPPORT SERVICES

West Jet 737-200 Full Flight Simulator Technical Description

Simulator General Description	
Operator/Sponsor	WestJet Airlines
Location	Calgary, Canada
Manufacturer	Reddiffusion, Crawley, UK
Original In-Service Date	1983, Major Update in 2000
Current Status	Currently Certified and Operating in Training

Simulated Aircraft	
Aircraft Manufacturer	Boeing 737-200 Certified
Engine Manufacturer / Model	P&W JT8D-17A
Tail # Still in Operator's Fleet	1983, Major Update in 2000

Qualification / Certification			
Authority:	Country:	Standard:	Classification:
FAA	USA	120-40B	Level C

Transport Canada	Canada	120-40B Equivalent	Level C
Certification Event:		Certifying Authority:	Date:
Initial Qualification	FAA / USA	January 2001	
Initial Qualification	TC / CAN	September 2000	
Last Recurrent Evaluation	FAA / USA	May 2005	
Last Recurrent Evaluation	TC / CAN	May 2005	
Next Recurrent Evaluation	FAA / USA	December 2005	
Next Recurrent Evaluation	TC / CAN	December 2005	

Aircraft Avionics

Unit / System:	Manufacturer / Model:
Flight Management	None
EICAS / ECAM	Sperry / Collins Analog

Flight Compartment

Primary Flight Instrument Type	Analog
Engine Instrument Type	Analog
Unit / System:	Manufacturer / Model:
ADI EADI PFD	ADI

HSI EHSI NFD	HSI
CDU MCDU	No
INS GPS EGPWS	EGPWS
Autopilot	Sperry SP-77
TCAS	No
Auto Throttles Installed	Yes
Heads Up Display	None
Weather Radar	Yes

Motion System	
Manufacturer / Model	Reddiffusion
Type (Hyd/Elec)	Hydraulic
Motion System Drive	Analog
Number of Axis	6 Axis
Jack Stroke Length	50 inch Stroke
HPU Pump(s)	<ul style="list-style-type: none"> 2 Motion Pumps 1 Control Loading Pump 1 Cooling Pump

Control Loading System

Primary Controls:

Manufacturer / Model	Rediffusion / Digital (CLIANDA)
Type (Hyd/Elec)	Hydraulic
Control System Drive	32/27 Driven CLIANDA
No. of Primary Channels	5
Loaded Primary Controls:	Installed:
Capt Aileron (Wheel)	Yes
Capt Elevator (Column)	Yes
Capt Rudder (Pedals)	Yes
FO Aileron (Wheel)	Yes
FO Elevator (Column)	Yes
FO Rudder (Pedals)	Yes
Nosewheel (Tiller)	Yes

Secondary Controls

Loaded Secondary Controls:	Installed:
Stab Trim	Yes (Hyd)
Speed Brake	Yes (Hyd)
Toe Brake	Yes (Hyd)

Auto Throttles	Yes (Hyd)
----------------	-----------

Visual System - Image Generator

IG Manufacturer / Model	Rediffusion SP-3T
Number of Channels	4 Channels
Computer Manufacturer / Model	TI 980
Y2K Compliant	Yes

Visual System - Display System

Display Type	Optical Window Mirror Box/CRT
Number of Windows	5 Window
Field of View	150 degree x 40 degree FOV
Monitor Manufacturer / Model	CRT
Monitor Display Type / Size	Calligraphic
Window Display Configuration	Two Window Boxes Per Side, Plus Another Selectable

Host Computer / Linkage

Manufacturer / Model	Encore 32/97
Operating System / Version	MPX 3.2
Y2K Compliant	Yes

Upgrades	<ul style="list-style-type: none"> • Host CPU Disc Drives (SCCSI) • Mag Tape (Optical Storage Drive) • Worldwide Radio Aids Auto-Compiler • Worldwide Height Above Terrain Database • Rudder Ratio Boeing Ref F Installed
Linkage (I/O) Interface	Rediffusion 1406 Linkage

Instructor Station	
Manufacturer / Model	Rediffusion MAGGS
IOS Display	Dual Screen / Color
Computer	MAGGS
Y2K Compliant	Yes
Remote Control Unit	Yes, 1 PCU with Touchscreen
Independent Crew Training	No
Features	<ul style="list-style-type: none"> • 500 Malfunctions

Aural Cue System	
Manufacturer / Model	Rediffusion Manufactured
Type / Description	Analog

Simulated Special Effects

Feature:	Installed:
FAA / JAA Approved Windshear Profile(s)	Yes
Microburst Model(s)	Yes
Simulated Oxygen System	Yes
Smoke Generation System	No

Data Package (Installed and Certified in the Simulator)

Category:	Documentation:
Aerodynamic Model	Latest
Flight Controls Model	Latest
Mass Properties Model	Latest
Engine Model	Latest
Engine Model	Latest

Documentation

Source:	Amounts Present (Selection is Bold and Underlined)				
Equipment Manufacturer (Boeing & CAE)					
0%	25%	50%	75%	<u>100%</u>	
Vendor (Computer, Visual, Peripherals, etc.)					

0%	25%	50%	75%	<u>100%</u>
Operator (Airline, etc)				
<u>0%</u>	25%	50%	75%	100%

Spare Parts				
Source:	Amounts Present (Selection is Bold and Underlined)			
Aircraft Parts				
<u>0%</u>	25%	50%	75%	100%
Simulator Manufacturer				
0%	25%	50%	75%	<u>100%</u>
Visual Manufacturer				
0%	25%	50%	75%	<u>100%</u>
Vendor				
0%	25%	50%	75%	<u>100%</u>