

General Specification for GECAS CRJ 900ER

Model / Series: CL-600-2D24 or CL-690

Specification basis: RAD-690-100 Rev. NC, December 06, 1999
GECAS purchase agreement Change Requests (CR)

General Information

Engine installation: 2 x CF34-8C5
Take off thrust - normal 13,123 lbs
- max 14,255 lbs

Maximum Ramp Weight: 37,108 kgs / 81,810 lbs
Maximum Take-off Weight (MTOW): 36,995 kgs / 81,560 lbs (CR 00-414)
Maximum Landing Weight (MLW): 33,339 kgs / 73,500 lbs
Maximum Zero Fuel Weight (MZFW): 31,752 kgs / 70,000 lbs

Certification Basis: Derivative of CL600-2C10 (CRJ-700)
Transport Canada
JAA (JAR 25) and FAA (FAR 25)

Noise Certification: Stage III

Auto land/Approach Category: CAT II

Units of Measure: Metric – CR 28-210

Detailed Specification by System (ATA)

ATA 11 – Placards and Markings

Bilingual interior placards – CR 11-20-400
Paint Scheme – exterior livery – CR 11-400

ATA 21 – Air Conditioning

Standard air conditioning system
Ground cart connection – ground air conditioning supply – CR 21-209

ATA 22 – Autoflight

Dual AFCS
FD EFIS display is a vee-bar

ATA 23 – Communications

VHF x 2
8.33 spacing – CR 23-232
Complete provisions for 3rd VHF – CR 23-231
Complete provisions for single HF – CR 23-441
CVR – solid state 2 hours recording – CR 23-221
SELCAL – single system – CR 23-450
Boarding music and pre-recorded announcement system – CR 23-260
PA system – standard from cockpit and F/A stations
Data-link – Provisions for Allied Signal – CR 31-471

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ATA 23 – Communications (continued)

Three frequency ELT – Satellite capable – CR 23-224

ATA 24 – Electrical Power

Standard electrical system
Engine generators x 2 – 40 kVA IDG
APU generators x 1 – 40 kVA
Emergency generator – ADG
TRU x 4
43 Ah ni-cad battery for APU start – also back-up
17 Ah ni-cad battery for avionics back-up

ATA 25 – Equipment / Furnishings

Economy class seating – 2 x 2, 80 seats
In-arm tray forward row – CR 25-22-401
Life vest pouch under each seat – CR 25-22-402
Recline – CR 25-22-404
Standard configuration for JAA, but incorporates FAA requirements

Flight crew
Captain, F/O and single observer seats
Headsets x 3 – CR 25-10-401

2 F/A seats, with aft folding F/A seat, each with full control panel

G1 galley – forward of R1, R/H
Provisions for hot meal service – CR 25-31-402
Trolley x 4, ATLAS ½ size or 2 full size – CR 25-34-401
Waste trolley x 1 – ½ size – CR 25-34-403
Oven x 2 – CR 25-34-420

G2 galley – aft of R1, R/H
Provisions for snack and hot beverage service – CR 25-32-403
Trolley x 2, ATLAS ½ size – CR 25-34-401
Beverage Makers x 2 – CR 25-34-410
Standard units x 4 – CR 25-34-402

G5 galley – aft R/H, behind R2 service door
Provisions for hot meal and hot beverage service – CR 25-35-420
Trolley x 2, ATLAS ½ size – CR 25-34-401
Beverage Makers x 2 – CR 25-34-410
Standard units x 2 – CR 25-34-402
Oven x 1 – CR 25-34-420

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G6 galley – aft R/H, forward R2 service door

Dry storage – CR 25-36-400

Trolley x 1, ATLAS ½ size – CR 25-34-401

Waste trolley x 1 – ½ size – CR 25-34-403

Standard units x 5 – CR 25-34-402

Wardrobe – forward L/H aft of L1 door, roll-up door – CR 25-24-211

Structural provisions for additional under bin stowage – CR 25-24-231

Lavatory – forward cabin, R/H, aft of galley G2

Integral holding tank and external servicing – re-circulation

Baby change table – CR 25-43-401

Lavatory – aft cabin, centreline – CR 25-42-402

Integral holding tank and external servicing – re-circulation

Baby change table – CR 25-43-401

Safety Equipment

Flight Deck

PBE x 1

Flashlights x 2

Crash axe x 1

Halon fire extinguisher x 1

Crew life vests x 3

Cabin

Flashlights x 2

Cabin life vests x 2

PBE x 3

Halon fire extinguisher x 3

First aid kit x 1

Portable Oxygen Bottles (with masks) x 2

Megaphone x 1

Emergency locator transmitter fitted to the aircraft – 121.5 & 243 MHz

Passenger Service Units

Air gaspers

Reading lights

Oxygen generators with masks – 2 masks left and 3 masks right

3rd Oxygen mask in L/H PSU – CR 25-62-401

Main Cargo Compartment

Located aft of passenger cabin

Class 'C' compartment with ventilation, smoke detection and fire extinguishing - 60 minute diversion to a suitable airport

Baggage load dividers – CR 25-52-400

Temperature control in aft compartment – CR 21-201

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Forward Under Floor Cargo Compartment

Located L/H side access between L1 door and L/H wing

Class 'C' compartment with ventilation, smoke detection and fire extinguishing - 60 minute diversion to a suitable airport

Under floor retrieval system – CR 25-490

ATA 26 – Fire Protection System

Standard system

ATA 27 – Flight Control System

Standard hydraulic servo actuators with cables and pushrods

ATA 28 – Fuel System

2,945 US gallons

Wing and center tanks

Fuel measurement in kgs (CR 28-210)

ATA 29 – Hydraulic System

Standard system – 3 independent systems 3,000 p.s.i.

ATA 30 – Ice and Rain Protection

Standard system – wing and intake cowl anti-ice

ATA 31 – Indicating and Recording System

EFIS – PFD and ND displays for Captain and F/O

EICAS displays x 2 – center instrument panel

Flight data recorder x 1 at 128 wps

Data concentrators x 2

FDAU x 1

Windshear detection and guidance system – incorporated in GPWS

ATA 32 – Landing Gear System

Brakes x 4, steel segmented disks

Main tires x 4, H36 x 12-18 bias ply

Nose tires x 2, 20.5x 6.75-10 bias ply

Nose wheel steering through pilot's hand wheel and/or rudder (limited)

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ATA 33 – Lighting Systems

Standard lighting and emergency lighting provided
Red beacon – CR 33-203
Tail logo light – CR 33-210
Baggage door floodlight (aft and under floor) – CR 33-420
Emergency escape path lighting – floor mounted

ATA 34 – Navigation

IRS x 2 – CR 34-202
FMS x 2, ACARS compatible – CR 34-236
GPS x 2 – CR 34-252
Radio Altimeter x 2 – CR 34-260
ADC computers x 2
ATC Transponders x 2
DME x 2
ADF x 2
VHF Navigation x 2, VOR/ILS/Marker – FM immunity CR 34-243
Weather radar x 1, with split scan (2nd control panel) – CR 34-270
GPWS x 1 – enhanced CR 34-428
RVSM capability – CR 34-465
TCAS system x 1 – change 7.0 CR 34-210
Partial provisions for HGS CAT IIIa – CR 34-281
Altimeter in metric (switch) if required – CR 34-263

ATA 35 – Oxygen

Chemical oxygen generators x 40 for passengers – 13 minutes
3 L/H and 3 R/H
Lavatory – single generator with 2 masks
F/A – one generator with a mask for each F/A station
Flight crew oxygen bottle – 50 cubic feet
Flight crew EROS full donning mask x 3 – CR 35-404

ATA 36 – Pneumatic System

Standard pneumatic system

ATA 38 – Water/Waste System

Two re-circulation type lavatories – Forward R/H and Aft centre
Aft lavatory and galley G5/G6 potable water – 10 US gallons
Forward lavatory and galley potable water – 11.5 US gallons

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ATA 49 – APU System

APU installed in aft fuselage
Provides bleed air and electrical
Start up to 37,000 feet, operates to 41,000 feet

ATA 52 – Passenger Doors

L1 passenger door – L/H, Type I
L1 incorporates an integral air stair
R1 service door – R/H, Type I
Over wing exit doors – 2 x L/H and R/H, Type III
Cargo compartment door – aft L/H
Forward cargo compartment door – L/H side, between L1 door and L/H wing
Aft R/H service – between galleys G5 and G6, only operable from outside