Ingenuity in Flight.

C Series: the future of narrow body aircraft

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Agenda

1. The DNA Of A Game-Changer
2. Ease Of Maintenance Of A 100% New Aircraft
3. Getting Ready For Customer Deliveries
Why Did Bombardier Launch A 100% New Aircraft?

Strong 100-to 150-seat Market Demand (7,000 Units In 20 Years)

Average monthly worldwide passengers per departure, 2014

Step change in efficiency

Block Fuel/Seat

Block Fuel/Trip

100-150 passengers / departure
C Series Design Optimized For 100-to 150-seats
Only Clean-sheet Aircraft For This Segment Since The 80’s

100% NEW AIRCRAFT

15% COC ADVANTAGE

TO 12,000 LB. LIGHTER

20% FUEL BURN ADVANTAGE
Ingenuity In Flight
First 100% New Single-aisle Aircraft In Nearly 30 Years

- Advanced Flight Deck with Side Sticks
- Advanced FBW & Integrated Avionics
- Pratt & Whitney PurePower® PW1500G Engine
- Electric Brakes
- Advanced Materials
  > 2,000 lb. weight savings
- Superior Field Performance & Range Flexibility
- Best-In-Class Cabin Comfort and Flexibility
Improving efficiency with validated advanced technology...

- Advanced Cockpit
- Fly By Wire
- Composite Wing
- Al-Li fuselage
- Geared Turbofan
- Electric Brakes

... and also relying on current best in class

- Hydraulic Systems
- Air Management System
- Ni-Cad Battery
C Series: World-class Partners And Long Term Relationships

More than 50 other suppliers around the world are directly involved on the C Series
C Series: Over 25% Direct Maintenance Cost Advantage Over In-Production Aircraft

Aircraft Health Management System

- Longer intervals for checks and overhauls
- Advanced materials
- Best in class LRU access & replacement time

- High level of integration
- New technology offering lower DMC
- Proven technology with best in class reliability

- 60% less airfoils
- Advanced materials & coatings
- 25,000 cycles LLP lives
- Reduced FOD risk
C Series: Clean Maintenance Program Drives Down The On-Aircraft Manhour & Cost

Clean maintenance program with longer intervals reducing maintenance cost

<table>
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<tr>
<th>Maintenance Check</th>
<th>C SERIES</th>
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<tr>
<td>A-check</td>
<td>850 FH</td>
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<tr>
<td>C-check</td>
<td>8,500 FH</td>
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<tr>
<td>Heavy Structural checks</td>
<td>12 years</td>
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Advanced materials
- More corrosion resistant
- More fatigue resistant
C Series: Off-Aircraft Parts & Material Offers More Integration & Better Reliability

15.1” Smart displays
- Elimination of display management computers
- Dispatch with one display inoperative

High reliability LED/HID Lights*
- LED wingtip navigation lighting lasts up to 40 times longer than halogen technology

Electric brake
- Elimination of hydraulic tubing & valves
- Brake wear & Tire Pressure monitoring

Smart Probes™
- Combine Pitot & Static Pressure probes and Air data modules in one unit
C Series: Best Of Its Class Engine Efficiency

- **High bypass ratio:** lower core deterioration
- **High-speed 3-stage LPC**
- **Fan Drive Gear System:** no life-limited parts (LLPs)
- **FADEC:** proactive alerts
- **HPC:** shaft-tied rotor, IBRs with ten blend locations
- **25,000-cycle LLPs**
- **All airfoils accessible via borescope locations**

**60% Fewer Turbine Airfoils**

- **HPT:**
  - reduced airfoil count
  - advanced materials and coatings

- **High-speed 3-stage LPT**

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**Optimized Performance Without Compromising Maintenance Costs**

- LPC: Low Pressure Compressor
- LPT: Low Pressure Turbine
- HPC: High Pressure Compressor
- HPT: High Pressure Turbine
- IBR: Integrally Bladed Rotor

**C Series: Best Of Its Class Engine Efficiency**

**Fan Drive Gear System:** no life-limited parts (LLPs)

**FADEC:** proactive alerts

**HPC:** shaft-tied rotor, IBRs with ten blend locations

**25,000-cycle LLPs**

**All airfoils accessible via borescope locations**
Enhanced Diagnostic
• All systems central reporting
• Parameter snapshot on fault
• FDE correlation
• Automatic and/or Manual in flight reporting

Web based user interface
- Fleet Tracking
- Enhanced Troubleshooting
- Event Monitoring
- Prognostic / Usage Monitoring

Bi-directional Communication
- ACARS / SATCOM
- Ground Wireless

Data Storage and Management
• 5000 parameters for 100 Flights
• Customizable reports
Performance Numbers Are Now Validated With Real Test Data

- **FUEL BURN:** AERODYNAMICS BETTER
- **PAYLOAD-RANGE:** BETTER
- **PASSENGER EXPERIENCE:** THE BEST
- **FUEL BURN:** ENGINE ON SPEC
- **FIELD PERFORMANCE:** BETTER
- **COMMUNITY NOISE:** THE BEST
Six Aircraft In Flight Testing

FTV1
WICHITA

FTV2
MIRABEL

FTV3
WICHITA

FTV4
WICHITA

FTV5
MIRABEL

1ST CS300 FTV
MIRABEL
Recent Certification Test Milestones Achieved
And Now Near The Finish Line

- Field performance
- Water ingestion
- Smoke penetration
- Community noise
- Passenger impressions in flight
- Max kinetic energy braking
Tracking To Our Target Of 300 Firm Orders And 20+ Customers By Entry-into-service

603 COMMITMENTS

243 FIRM ORDERS

Orders and commitments numbers based on March 17th, 2015 press release.
Getting Ready For Customer Deliveries

- Technical Publications Available Electronically
- Maintenance Documents Approved By Authorities
- Investing In Spares Inventory

- Customer Response Center Operational Six Months Before Entry-into-service
- Pilot Familiarization Training Completed
- Worldwide Authorized Training Provider Selected

- Field Service Representatives Already Getting Hands-on Aircraft Experience

- Preparing For Functionality, Reliability & Operational Testing At The Airlines

- Running Flight Test Like An Airline: Flight Ops Center