



C&L Aerospace

# CHALLENGER PROGRAM GUIDE

+1 207 617 6050 | [cteam@cla.aero](mailto:cteam@cla.aero) | [cla.aero](http://cla.aero)

YOUR ONE-STOP SOLUTION FOR CHALLENGER AIRCRAFT SUPPORT AND SERVICE



## Overview of Challenger Support

We have one of the world's largest inventories of Challenger aircraft - rotables and expendable - available for operators along with a complete range of programs and parts support that can be tailored to your specific needs.

All parts are available for purchase or exchange at competitive prices and with industry warranties. These parts are in new, overhauled, and serviceable condition and available individually or as part of a package.

At C&L, aircraft parts are thoroughly inspected and tagged prior to being placed in inventory ready for sale. All of the parts and certificates are photographed and scanned, and they are readily available for customer inspection online and included as part of a quote.

24/7 parts support and international same-day shipping from our strategically located, fully stocked in the United States.

### We offer:

- Spare Parts Supply
- Rotable Exchange Programs
- Rotable Repair Management
- Flutter Damper Programs
- Flight Control Programs
- Distribution of OEM Product



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## User Support Reference Guide

C&L offers numerous programs and support features to meet the needs of its customers with industry-leading components and an ever-expanding inventory of world-class options and accessories.

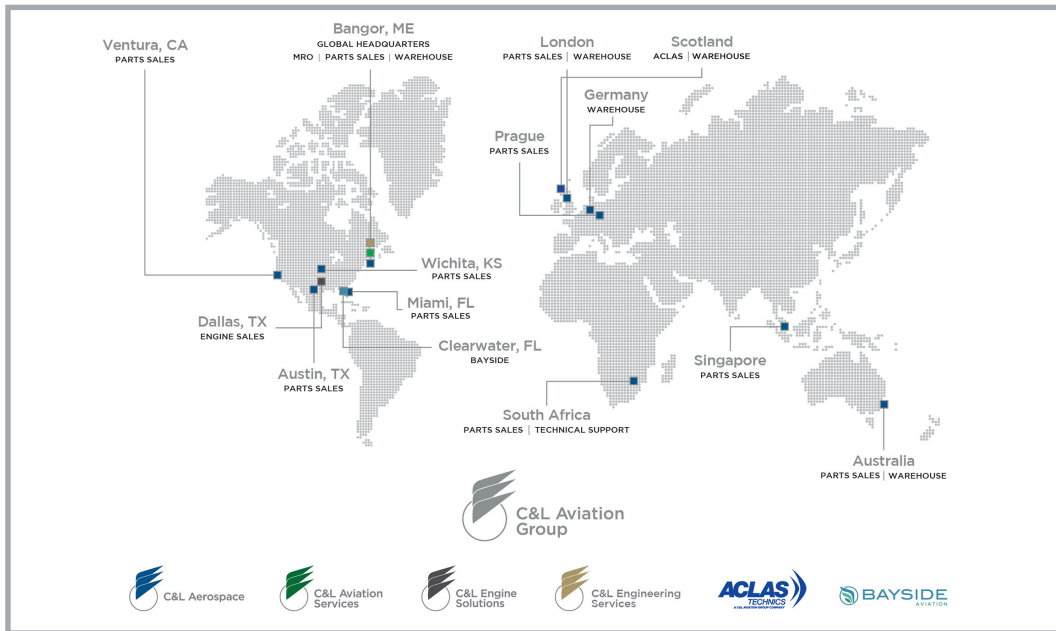
Below you will find a reference guide to access C&L’s most up-to-date offerings and support.

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## Global Contact Page



C&L has local contacts around the globe to help you meet your Challenger Parts and Service needs.

For inquiries, please email at [inquiries@cla.aero](mailto:inquiries@cla.aero)

**North America**  
+1 207 217 6050

**Latin America/  
Caribbean**  
+1 207 217 6085

**Europe**  
+44 7973 655014

**Africa**  
+27 72 224 3509

**Asia**  
+65 8855 3232

**Australia**  
+61 7 3354 8100



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## Major Components

### AUTO FLIGHT

- 822-0182-001.....FLIGHT CONTROL PANEL
- 622-4404-001.....SERVO, AILERON
- 622-5027-101.....SERVO, ELEVATOR
- 822-0288-001.....CONTROLLER, ENVIR IAPS
- 822-0868-089.....COMPUTER, FLIGHT MGT
- 822-0809-710.....FLIGHT CONTROL COMPUTER
- 622-9945-021.....MODULE, POWER SUPPLY (PWR4000)
- 622-9814-715.....CONCENTRATOR I/O
- 822-1364-002.....CSU-4100, CONFIGURATIONS STRAPPING
- 822-0782-001.....SERVO SWITCHING, SSM-4000
- 622-9945-021.....MODULE, POWER SUPPLY
- 822-0332-701.....PROTECTOR, LIGHTNING/ HIRF (LHP4001)
- 622-9818-405.....COMPUTER, MAINT DIAG
- 822-0287-701.....PROTECTOR, LIGHTNING/ HIRF (LHP4000)
- 822-0288-001.....CONTROLLER, ENVIR IAPS
- 822-0332-702.....PROTECTOR, LIGHTNING/ HIRF (LHP4001)
- 622-9978-314.....ELECTRONIC FLIGHT DISPLAY
- 965-0976-003-216-216.....EGPWS

### ELECTRICAL POWER

- 731579.....INTEGRATED DRIVE GENERATOR
- 720846D.....CONTROL UNIT, GENERATOR
- MS17976-2.....CONVERTER, 100AMP
- 100-0211-01.....CHARGER, BATTERY
- 720845E.....GENERATOR
- 3505188-9.....STARTER, ENGINE AIR

### CONTROL SURFACES

- 600-14002-1001 / -1002.....INBOARD FLAPS
- 600-14500-805 / -806.....OUTBOARD FLAPS
- 600-13000-1003 / -1004.....AILERONS
- 600-10502-41 / -42.....SPOILER ASSY, GROUND
- 600-10602-61 / -62.....SPOILER ASSY, FLIGHT
- 600-22000-1009.....RUDDER
- 601R92301-15.....7060-10.....HSTAB TRIM CONTROL UNIT
- 604-92305-7.....8454-3.....HSTAB TRIM ACTUATOR
- 600-93000-95 / -93.....2022266-9 / -10.....FLAP ACTUATOR
- 600-93000-116 / -114.....2022268-9 / -10.....FLAP ACTUATOR
- 600-93000-115 / -113.....2022278-9 / -10.....FLAP ACTUATOR

### HYDRAULIC POWER

- 3032467-001.....HYDRAULIC PUMP, ENGINE DRIVEN
- 848847.....HYDRAULIC PUMP, ELECTRIC DRIVEN
- 600-59174.....PRESSURE TRANSDUCER
- 979580-4.....VALVE, MODULATING & SHUTOFF
- 979558-8.....VALVE, SHUTOFF
- 979626-5.....VALVE, ISOLATION SHUTOFF
- 979998-3.....VALVE, BLEED SHUTOFF ISOLATION
- 601R75111-3.....7303-1.....BOOTSTRAP RESERVOIR
- 700-75142-9/101800-7.....FLUTTER DAMPER



### WHEEL, BRAKES, STEERING

- 5012373 - 604-85123-1.....WHEEL ASSY, MAIN
- 5010598 - 601R85003-1.....WHEEL ASSY, NOSE
- 750030000 - 604-75115-5.....VALVE, BRAKE CONTROL
- 5012333 - 604-85123-101.....BRAKE ASSY
- 140-181 - 604-87000-1.....WHEEL SPEED TRANSDUCER
- 42-925-1 - 604-87000-9.....CONTROL, ANIT-SKID
- 39-803 - 604-87000-5.....VALVE, CONTROL, ANTI-SKID
- 7040-15 - 601-86100-13.....NOSE STEERING CONTROL MODULE
- 150446002 - 600-85002-11.....VALVE, NOSE STEERING SELECTOR

### STRUCTURES

- 228-50207-259.....TRANLATING, COWL UPPER LH
- 228-50207-260.....TRANLATING, COWL UPPER RH
- 228-50208-237.....TRANSLATING, COWL LOWER LH
- 228-50208-238.....TRANSLATING, COWL LOWER RH
- 228-50142-601.....DOOR ASSY, COWL UPPER LH
- 228-50142-602.....DOOR ASSY, COWL UPPER RH
- 228-50162-417.....DOOR ASSY, COWL LOWER LH
- 228-50162-418.....DOOR ASSY, COWL LOWER RH
- 228-50020-113.....INLET ASSY, NEUTRAL
- 601R33038-5.....RADOME

### MISC

- 300013000-003.....601-97097-7.....VALVE, COWL ANTI ICE
- 5500-B1A-BF23A.....02 CYLINDER ASSY
- 5600-9C1A-YON.....02 CYLINDER ASSY
- 899074-1.....FIRE BOTTLE



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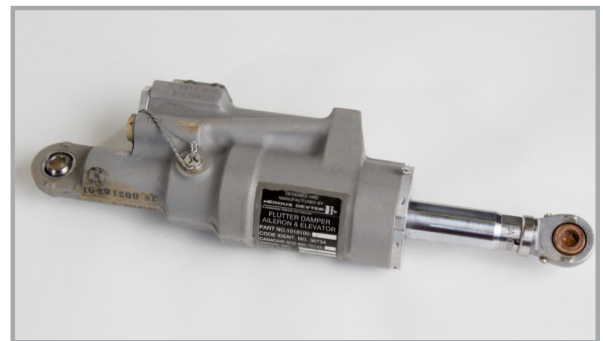
## C&L Aerospace is the Best Choice for Challenger Flutter Dampers P/N 1018100-7 (600-75142-9)



### Offering Flutter Damper Functional Tests, Repairs, and Exchanges

#### Repairs and Exchanges Available for Immediate Delivery

- P/N 1018100-7 (600-75142-9)
- Fast Turn Times on Functional Tests
- Exchanges Available for Immediate Shipment
- Repair Solutions Available, Including Upgrade/Modification to Latest Status
- 12-Month Warranty on all Units
- Same-Day Shipping on Exchanges
- 8130 Dual Release



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## Fresh Overhauled Challenger 604/605 Brake Exchanges



- Brakes P/N 5012333 (Bombardier P/N 604-85123-101) factory overhauled condition provided by OEM (0 TSO/CSO) with newly overhauled fresh tags and dual-release certificate
- 2-year warranty

## Fresh Overhauled Challenger 604/605 Wheels Exchanges

- Full ship sets of wheels available for immediate purchase
- Main Wheel P/N 5012373 (Bombardier P/N 604-85123-1) - newly overhauled fresh tags and dual release 2-year warranty from tag date
- Nose Wheel P/N 5010598, 501049-1 (Bombardier P/N 601R85003-1) - newly overhauled fresh tags and dual release
- New Michelin tires installed (Main P/N 027-697-0, Nose P/N 031-614-0)



## Flight Controls



C&L offers full ship sets of Challenger flight controls.

- Ailerons
- Elevators
- Spoilers
- Flaps
- Rudders

All parts are available for exchange at competitive prices and with industry warranties. These parts are available individually or as part of a package.

Features of buying with C&L include:

- In stock and ready for immediate shipment
- In overhauled or serviceable condition
- Each part is inspected and photographed (photographs provided with quote)
- Able to paint match for additional charge
- 8130 Dual-release

## Upgraded Universal Flight Management System

At C&L, we understand the “Nextgen” changes happening in your aircraft’s avionics and the need to stay ahead of the changing navigation requirements for SBAS/GPS systems. As a dealer and installation/service center for Universal Avionics products and software, we are able to fully support your transition into an upgraded Universal Flight Management System, SCN1000 Series WAAS/LPV/SBAS System. C&L owns the STC for this conversion.



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## Champion Igniter Plugs

With C&L, you receive major savings on factory new engine and APU Champion Igniter Plugs, which are shown to have a longer life than the competing igniter plugs. As a distributor, we offer **guaranteed fixed pricing** of Champion FAA-PMA approved igniter plugs as a direct replacement.

- Champion Igniter Plugs are shown to have a longer life than the competition
- OEM approved
- Igniters are in stock at all our global warehouses
- Ready for shipment
- Competitively priced
- Contract pricing available

Description	Part Number
Champion Igniter Plug	CH31858-2



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## ARTEX Emergency Locator Transmitters and Personal Locator Beacons

Through our partnership with ARTEX, C&L distributes Emergency Locator Transmitters (ELT) and Personal Locator Beacons (PLB), along with their installation kits, batteries, and antennas.

The ARTEX C406-N is a single output ELT that utilizes one RF connector to a single cable that connects to ARTEX single input antennas. The locator provides increased safety and security in aircraft for operators. Units feature the following:

- Global coverage
- Encoded digital message broadcast
- 406 MHz distress
- Local search and rescue signal

Unit	Part Number	Battery Part Number
C406-N	453-5060	452-0133

### Benefits of buying with C&L:

- Quick battery replacement and support
- Installation kits also available
- Antennas and remote switches available for any configuration
- ELT units can come pre-programmed by us so the configuration fits your geographic region
- FAA/EASA/TC approved
- Products stocked in-house and ready for immediate shipment worldwide



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## ARTEX ELT 4000 Emergency Locator Transmitters

The all new ARTEX ELT 4000 is a transport-grade Emergency Locator Transmitter (ELT) that utilizes alkaline batteries. This innovative power source means that the ELT 4000 is completely exempt from FAA special condition requirements.

Through our partnership with ARTEX, C&L distributes Emergency Locator Transmitters (ELT), along with their installation kits, batteries, and antennas.

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- FAA/EASA/TC approved
- Products stocked in-house and ready for immediate shipment worldwide

Part Number
8260: ARTEX ELT 4000 Beacon/ Battery only
8261: ARTEX ELT 4000 BASE PACK (includes installation materials, including the mounting tray)
8262: ARTEX ELT 4000 BASE ROD 1IN (includes BASE PACK with the addition of PN110)
8263: ARTEX ELT 4000 BASE BLD 1IN (includes BASE PACK with the addition of PN:110)
8340: ARTEX BATTERY ELT 4000



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## Safran Oxygen Masks and Stowage Boxes

Through our partnership with Safran, C&L offers overhauled oxygen masks at a substantial savings compared to purchasing new.

- Available for all MC10, MA10, MF10, MC20, MF20 series masks
- Flat rate overhaul program with 2-year warranty
- Huge savings compared to buying new
- All OEM parts used in repair
- Available for immediate shipment
- 8130 dual release tags
- Also stocking MXP stowage boxes

## Why are Safran Oxygen Masks the most trusted in the market?

### Safety:

- Superior hypoxia and smoke protection
- Donned in less than 5 seconds

### Simplicity:

- One-hand control
- Designed for comfort

### Reliability:

- 40+ years of experience and expertise
- 100,000+ masks and regulators in the field



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## Essex Industries PBE Smoke Hoods

As an authorized stocking distributor, we carry Essex smoke hoods for the Challenger aircraft at a significant cost savings over competing products. Available for immediate shipment.



**PMA**  
MR-10008N

Major Feature	»	Advantage
Lightest PBE on the market (4.856lbs/w)		Lowers cost of ownership
Compressed oxygen cartridges		Safest PBE available
No dangerous chemicals used to produce oxygen		Can be shipped easily
Easiest PBE to deploy and don		Preferred by cabin crew
PBE with the widest range of vision		Clear visibility in critical situations
Only PBE with end-of-service indicator		Ensures cabin crew safety (see photos to the right)
Only PBE with humidity indicator		Quick verification that PBE is operational



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## PPG Windshields

C&L is an authorized stocking distributor for Challenger windshields, manufactured by PPG, for operators and MRO facilities around the world.

Offering glass faced acrylic windshields and acrylic side windows that come with a 36-month from manufacturer ship date or 24-month from installation warranty, and are stocked at our global warehouses.

Description	PPG	Bombardier
LH Main Windshield	158700-59	604-33030-25
RH Main Windshield	158700-60	604-33030-26
LH Side Window	211600-01	600-33030-27
RH Side Window	211600-02	600-33030-28



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# DK-120 REPAIR SHEET

## Offering Repaired DK120 and DK120-90 Units for Immediate Exchange



The DK120 is a battery-operated underwater acoustic pulse generator (beacon/pinger) that is activated when the water switch is immersed in either fresh or saltwater.

### Our Program

- Competitively priced
- Available now for flat-rate exchange
- In stock
- Same-day shipping
- Located in all our global warehouses for quicker delivery
- 8130 dual release certificates

### Specifications

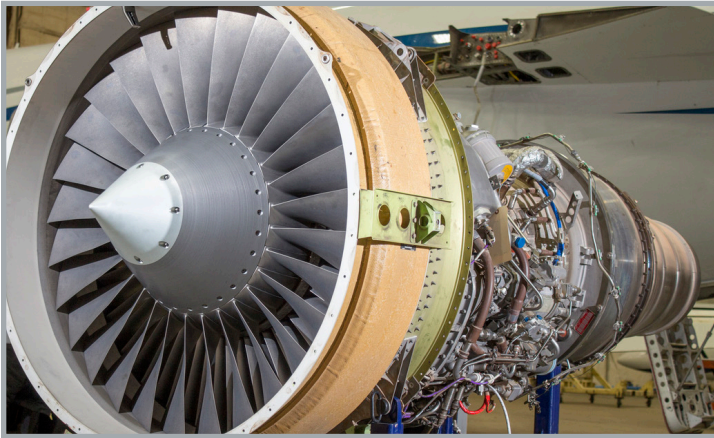
- Watertight aluminum case (1.3" dia, 3.92" length (less mount))
- Capable of operation at depths of up to 20,000 feet (6096 m)

- Detectable at a range of 2000 to 4000 yards (1800 to 3600 meters) based on environmental factors
- Sustained pressure up to 8700 psi
- Water switch actuation initiates beacon operation upon immersion in either fresh or salt water
- The battery used to power the DK120 will sustain beacon operation for a minimum of 90 days at an acoustic output of 160 dB operating frequency is 37.5 kHz
- The battery used to power the DK120-90 will sustain beacon operation for a minimum of 90 days at an acoustic output of 160 dB operating frequency is 37.5 kHz



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 cla.aero

## Challenger Engine Support



### Engine Sales and Leasing

As a global business, we support customers all over the world, and we actively engage in purchasing CF34 jet aircraft engines. Our large and varied portfolio, along with our expertise, allows us to provide creative fleet management services to investors and aircraft owners. This is especially important as airlines undergo a high volume of transitioning aircraft. Our support, expertise and inventory can decrease the burden on operators as they move between old and new fleets.

### Engine Leasing

We offer CF34 engines available for lease, with a fixed monthly rent for the lease duration. Our creative lease terms allow operators the flexibility to meet their ever-changing needs, whether they be a short term, long term or AOG requirements.

Our creative solutions with sale and leaseback options provide customers with the opportunity to release equity in their assets, providing them with positive cash opportunities and delivering maximum market value from assets with favorable residual value. This results in increased operational flexibility and optimized cash flow, and it helps to eliminate future value risk.

C&L specializes in the GE CF34 corporate aircraft engine transactions.

Our one-stop-solution approach means that you will be able to get all the help you need with your transaction in one place. That saves time and money, and it ensures that you are getting the best deal possible for your investment.

Our Services Include:

- Engine Sales and Leasing
- Engine Acquisitions
- Engine Disassembly
- Portfolio Management

### Engine Disassembly

Engine disassembly can be a good alternative to selling an engine, and in most cases, it provides more revenue than the outright sale. We understand this is not a project most owners or investors want to take on by themselves, so we offer services to manage the entire project, from teardown to part sales. We disassemble engines and offer complete service, including inventorying and warehousing, repair of components, and marketing and sale of parts.

### Portfolio Management

Our leased and owned portfolio management services can be customized to meet each engine owner's or investor's specific needs. We offer consignments, remarketing services, technical advisement, lease monitoring, cash management, accounts receivable management and financial accounting services.



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 cteam@cla.aero  
 cla.aero



## Dealerships



## Distributorships



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## C&L is your One-Stop Solution for Challenger Maintenance, Repairs, and Overhaul

We specialize in supporting Challenger operators with a complete range of services that can be customized to reduce aircraft operational costs and downtime. And we do it all from our multi-hangar facility in Bangor, Maine, adjacent to Bangor International Airport. From maintenance and avionics to interior refurbishment, we can service the Challenger nose-to-tail without ferrying them to and from different facilities.

We offer the following services:

- Heavy maintenance
- Component repair
- Structural modifications
- Engineering
- STC development
- Interior refurbishment and modification
- Avionics Upgrades
- Cabin Management Solutions
- Pre-purchase inspections
- Aircraft marketing and sales
- Aircraft and engine leasing
- Aircraft tear down



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## FEATURES AND BENEFITS OF WORKING WITH US

- One-stop solution for the Challenger aircraft
- Transparent quoting system with photos of individual parts and documentation
- Decades of technical knowledge and experience of the Challenger aircraft
- Large inventory located around the world
- Local offices, staff, and warehouses in your geographic region and timezone
- Parts programs designed to save you time and money



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