

C&L Aerospace

CHALLENGER PROGRAM GUIDE

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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

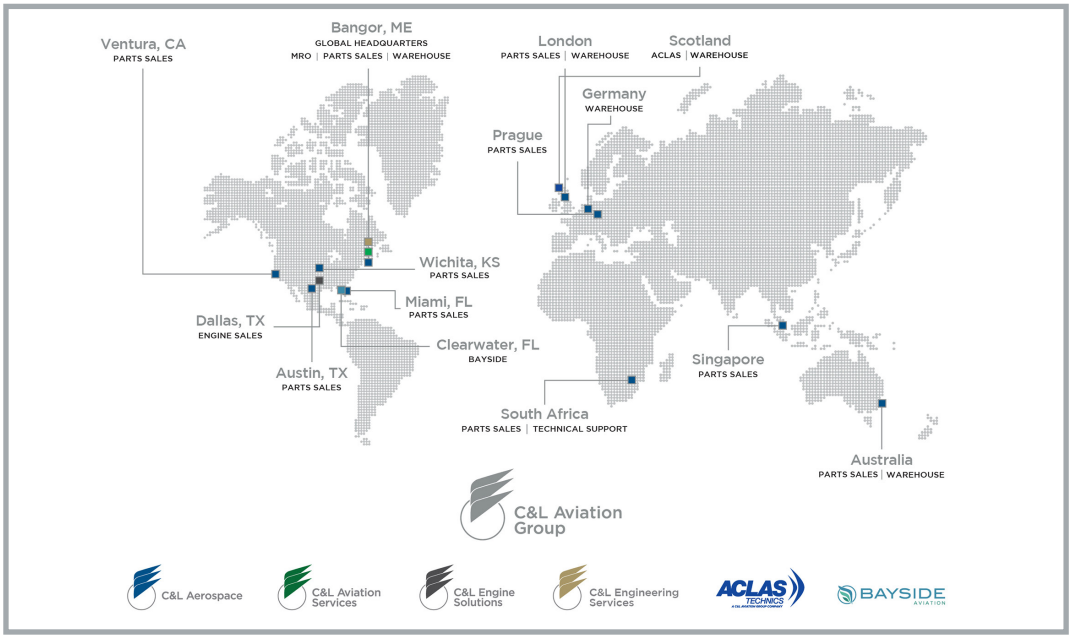
C&L offers numerous programs and support features to meet the needs of its customers with industry-leading components and an ever-expanding inventory of world-class options and accessories.

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**

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

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

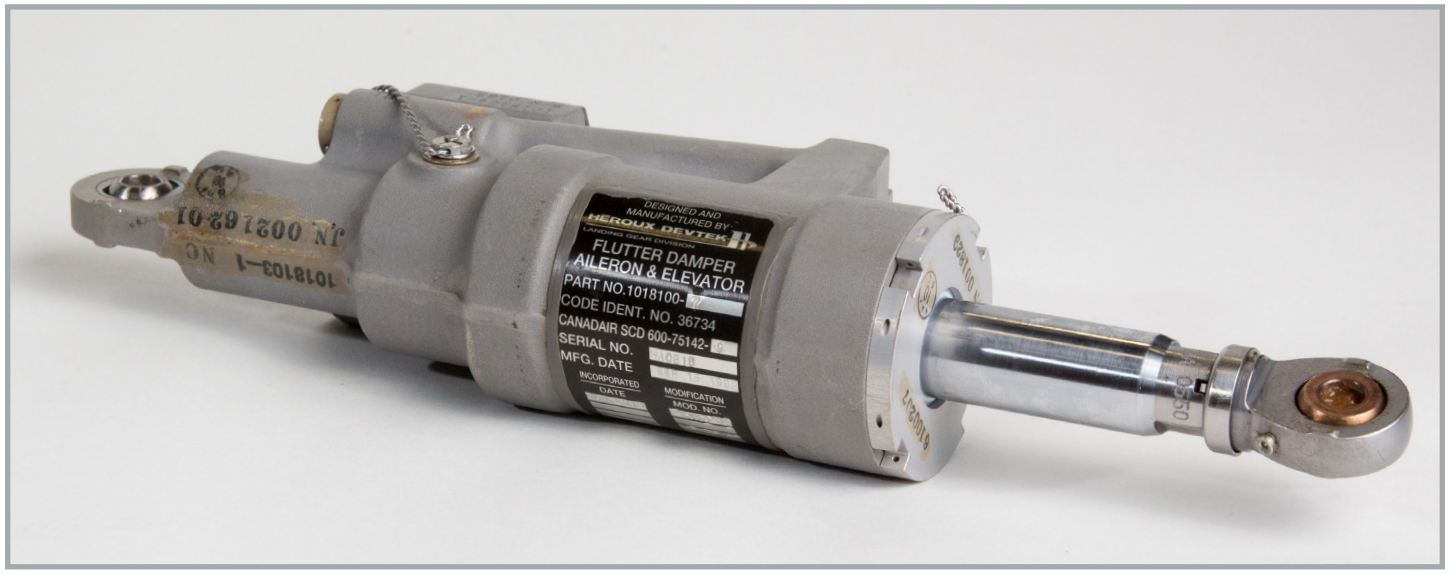
MISC

300013000-003.....601-97097-7.....VALVE, COWL ANTI ICE
5500-B1A-BF23A.....02 CYLINDER ASSY
5600-9C1A-Y0N.....02 CYLINDER ASSY
899074-1.....FIRE BOTTLE

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C&L Aerospace is the Best Choice for Challenger Flutter Dampers

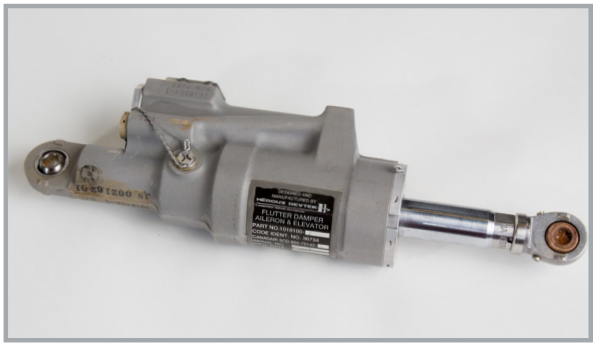
P/N 1018100-7 (600-75142-9)



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)



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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 AEROSPACE

Champion Igniter Plugs

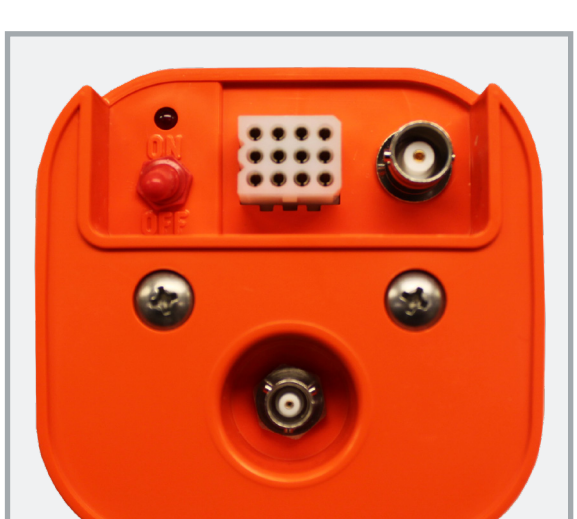
With C&L, you receive major savings on factory new engine and APU Champion Igniter Plugs, which are shown to have a longer life than the competing igniter plugs. As a distributor, we offer **guaranteed fixed pricing** of Champion FAA-PMA approved igniter plugs as a direct replacement.

- 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-programed 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.

ARTEX 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

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

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-programed 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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Oxygen Masks and Stowage Boxes

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

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Essex Industries PBE Smoke Hoods

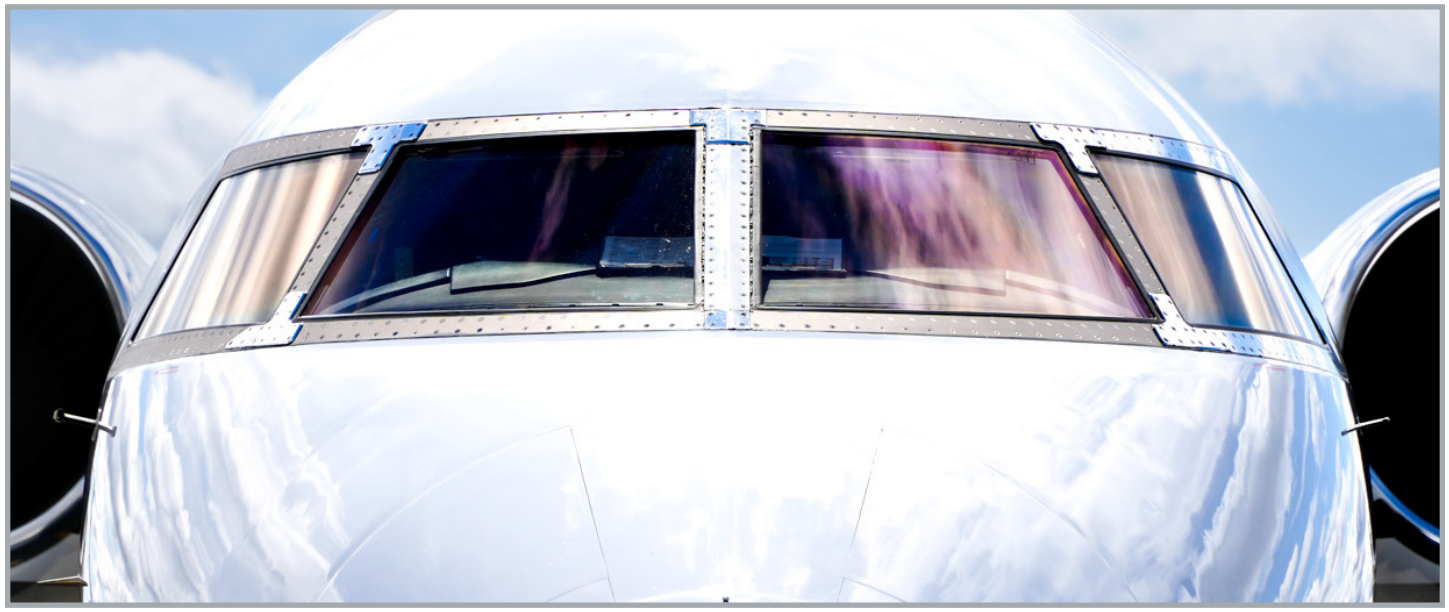
As an authorized stocking distributor, we carry Essex smoke hoods for the Challenger aircraft at a significant cost savings over competing products. Available for immediate shipment.

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 indictor	Ensures cabin crew safety (see photos to the right)
Only PBE with humidity indicator	Quick verification that PBE is operational



PMA
MR-10008N

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PPG Windshields

C&L is an authorized stocking distrubutor 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 Windhsield	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

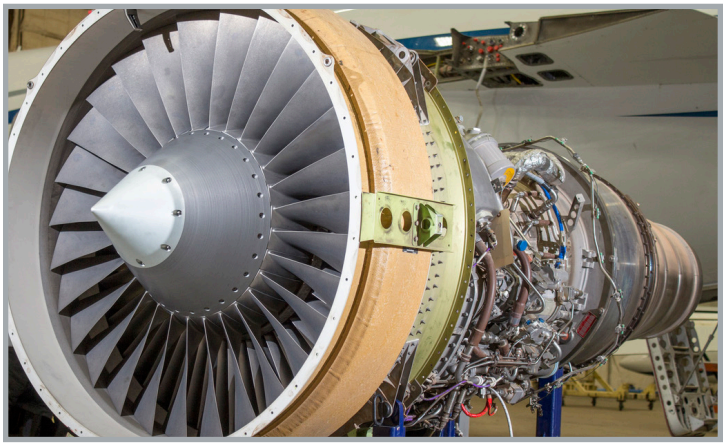
- Competitively priced
- Available now for flat-rate exchange
- In stock
- Same-day shipping
- Located in all our global warehouses for quicker delivery
- 8130 dual release certificates

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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Challenger Engine Support



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 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 needsm, 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.

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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Dealerships

DPI LABS

ALTO AVIATION

Viasat

airtext

L3HARRIS

ROSEN AVIATION

LATITUDE Optimize every flight.

gogo

UNIVERSAL AVIONICS an Elbit Systems Company

Honeywell

BongioviAviation

FDS

Blue Sky Network

GARMIN

Flight Data Systems

Distributorships

HEROUX DEVTEK

ESSEX INDUSTRIES

HUTCHINSON

TRUE BLUE POWER A division of Mid-Continent Instrument Co., Inc.

PPG

MEGGITT Securaplane

DESSER

CSI Aerospace A HEICO COMPANY

CHAMPION AEROSPACE

ACR

ARTEX

APM AERO PARTS MART

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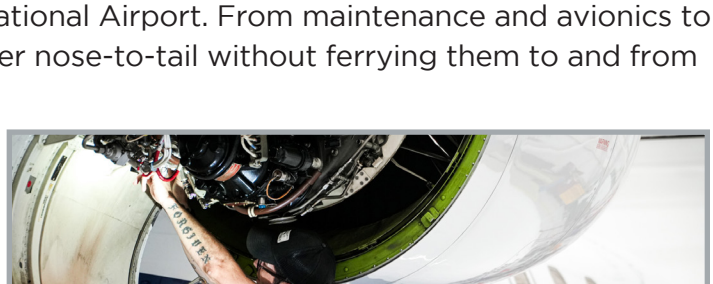


C&L is your One-Stop Solution for Challenger Maintenance, Repairs, and Overhaul

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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YOUR ONE-STOP SOLUTION FOR CHALLENGER AIRCRAFT SUPPORT AND SERVICE