



# CONVAIR NEWS

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250-491-5500

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**Bruce Kingsbury**  
Direct: 250-491-5447  
[cv\\_sales@flightcraft.ca](mailto:cv_sales@flightcraft.ca)

## What do you think?



Send us your feedback:

[bryan\\_akerstream@flightcraft.ca](mailto:bryan_akerstream@flightcraft.ca)

## WELCOME

Welcome to the first Issue of the Convair News! We believe the Convair aircraft is a true workhorse, capable of fulfilling various operations with high reliability at minimal cost. As such, we are committed to supporting it's operations.

This newsletter was developed to keep you, the operators, informed about the work we are doing and the services we provide to support the fleet into the future. As the STC holder and an operator, we fully understand the challenges inherent in operating an aging aircraft. As such, we expend a great deal of effort developing solutions to ensure the continued viability of the fleet. We intend to use the Convair News to keep you updated on recent and planned future developments in support of the fleet and hope that the information allows you to make informed decisions for your unique operations. Of course, if something in the newsletter interests you and you would like further detail, please do not hesitate to contact any of our experienced staff: they will be happy to help.

We will keep the newsletter short and will have standard sections on Engineering, Parts and Technical Support, plus any specific topics that may be pertinent at that time. We truly want the information to be relevant and if there is a specific topic you believe we should include for the benefit of all operators, please let us know and we will endeavour to get it into our next Issue.



## ENGINE MOUNTS

The engine mount assemblies, as installed on the Allison prop-jet Convair aircraft models...CV580, CV580A and CV5800, utilizing the Allison 501D13 or 501D22 series engines, are fully supported by Kelowna Flightcraft through the Convair Sales department. The engine mounts are manufactured and supported by the Lord Corporation, utilizing approved assembly numbers...

P/N: LM207-SA1 Engine Mount Assy – Forward  
(2 each per engine)

P/N: LM207-SA2 Engine Mount Assy – Rear (1 each per engine)



Forward and Rear Engine Mount Assembly

### 1. Overhaul / Repair

Kelowna Flightcraft Ltd's overhaul shop maintains capabilities to repair and overhaul operators engine mount assemblies within a two week time period. The teardown/evaluation/NDT quotation estimate is generated immediately upon inspection of items.

Upon receipt of customer approval of the work quotation, the KFL overhaul shop can draw materials from our materials management department which maintains over 30 line items of engine mount related material. The contact for information and estimate quotations, related to the overhaul and repair of customer units, is [cv\\_sales@flightcraft.ca](mailto:cv_sales@flightcraft.ca), (250) 491-5447.

### 2. Exchanges

Kelowna Flightcraft maintains a substantial amount of complete overhauled engine mount assemblies, which allows our Convair sales department to offer flat rate exchanges, or outright purchases on the LM207-SA and LM207-SA2 units.



Forward and Rear Engine Mount Breakdown

### 3. Mount related parts

The materials management department not only inventories all parts related to the repair and overhaul of the engine mount assemblies, but maintains an extensive number of Lord parts related to the QEC installation of engine assembly... which includes forward and aft engine attachment bolts and hardware.

## SALES ALERT

Did you know that in our continuing effort to support the Convair fleet, Kelowna Flightcraft purchased the entire Jaydee inventory last year? The 23rd, and final, trailer load arrived in Feb 2010 and we have logged almost 50,000 Convair line items since then. We estimate that we have gone through 75% of the entire inventory and will complete the remaining 25% before the end of 2011. All items that have been processed are now available for sale through our Sales Department.



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## TECHNICAL SERVICES

Kelowna Flightcraft Ltd. (KFL) has owned and operated piston, then Allison turbine powered Convair aircraft for over 30 years. KFL has provided third party heavy maintenance and overhaul for operators of all Convair types, including the Canadian Military fleet of CC109 (Cosmo) aircraft. The company has continued to grow in its ability to offer more customer services. As a modification center, operator and maintenance provider, the Kelowna Flightcraft Group has expanded to offer customer services that include Maintenance and Avionics service and modification, Engineering services, an Engine Overhaul Shop for Allison 501 series engines, a Landing Gear Overhaul facility, a Machine Shop, a Plating Shop, a Component Overhaul Shop and a dedicated Sales team with a substantial inventory offered for sale. The expansion included creating a Manufacturing team dedicated to providing parts previously in diminishing supply and a wire stamping and harness manufacturing facility.

On the 19th of January 2001, KFL purchased the Type Certificates for all Convair aircraft and the Convair Division became "official".

The KFL Convair Division is the holder of Type Certificates or Design Approvals for the Convair 240/340/440 /640 /580 and 5800 (stretch) aircraft. Therefore, the Convair Division is curator of documents, drawings and data created to substantiate and maintain the approved design criteria for the listed aircraft types.

Currently the following are known Convair aircraft, either operational or parked in restorable condition:

- 8 - 240 aircraft
- 10 - 340 aircraft
- 91 - CV580 aircraft
- 4 - CV640 aircraft

- 1 - CV600 aircraft
- 6 - CV5800 aircraft

The Convair Division maintains an active library of Technical Manuals, over 100,000 drawings, past and present correspondence responses to Operator queries, as well as design approval substantiating data. This aids in our commitment to support Operators as they maintain the Convair aircraft into the future.

The Convair Division is supported by Kelowna Flightcraft Drawing Control, which has the ability to scan and print large format drawings (up 36 inches wide). As well, Drawing Control is able to reproduce the Convair Manuals and documents listed on the Kelowna Flightcraft Convair web page ([www.flightcraft.ca/convair.asp](http://www.flightcraft.ca/convair.asp)). The web page includes the current Manuals revision Status and is updated on a continual basis.

The Structural Significant Detail inspections per the ZS 340-1000 report are sent to and collected by Kelowna Flightcraft's Convair Division. All discrepancies are recorded and the reports are filed by SSD number and Aircraft Serial Number. The purpose is to gather sufficient data to enable possible inspection interval adjustment at some future point. In addition, the information is gathered to ensure the airframe structure is still serviceable within type design. These files are maintained and active.

Kelowna Flightcraft Ltd. has made the commitment to support the CV580 Convair aircraft. In keeping with this commitment the Convair Division type trialed a new ATA formatted CV580 Illustrated Parts Catalogue in November and expect to have it available to operators very shortly.

### Want to show off your Convair?

Send us a picture and we'll add it to an upcoming issue!

Forward your submissions to:

[karen\\_mckenzie@flightcraft.ca](mailto:karen_mckenzie@flightcraft.ca)



## ENGINEERING

Our Engineering department at Kelowna Flightcraft Ltd. (KFL) is committed to quality and customer support. We continue to provide comprehensive aircraft support services including AOG structural repair approvals.

As an operator KFL is directly exposed to the operating environment of the aircraft, allowing us to develop cost effective workable solutions in all aspects of Convair operations.

KFL is staffed with a variety of engineering disciplines (i.e. Propulsion/avionics/structural/mechanical/systems/interiors) to ensure optimal support for all our customers' needs. KFL works hard at providing cost effective solutions to the ever growing obsolete materials and components, as well as ensuring compliance to the evolving regulatory environment.

Over the years KFL has developed several alternate part and material substitutions in support of the Convair aircraft. These alternate parts are reflected in our upcoming IPC revision as well as current and upcoming service bulletins. A current Service Bulletin Index can be requested through Matt Palmberg, Convair Division Manager. Operators are also made aware of these alternate parts when requesting quotes for the original parts through our materials management department.

Repairs exceeding current approved data are typically handled on a case by case basis. Repair requests are monitored and frequent requests are often developed into generic (non s/n specific) repairs. This allows for immediate repair response to customer repair requests.

### Repair Examples:

R999-027-001 Rudder Cross Over Repair  
 R999-032-001 MLG Cylinder Gland Nut Thread and Packing Bore  
 R999-032-002 MLG Torque Arm Lug Repair  
 R999-032-003 MLG Cylinder Drag Strut Boss Repair  
 R999-032-006 NLG Cylinder Steering Flange Oversize Holes  
 R999-032-007 MLG Retract Pin Socket Oversize  
 R999-032-008 NLG Cylinder Packing Bore Oversize and Gland Thread Rework

R999-032-009 MLG Cylinder Orifice hole Oversize  
 R999-032-010 MLG Piston Jack Pad Hole Oversize  
 R999-032-015 NLG Cylinder Main Bore Upper End Rework  
 R999-032-017 NLG Cylinder Oversize Orifice Support Hole  
 R999-032-018 NLG Lower Torque Arm Apex Oversize  
 R999-032-019 MLG Piston Upper Bearing  
 R999-032-020 NLG Trunnion Cylinder Oversize  
 R999-032-021 NLG Cylinder Drag Strut Lug Repair  
 R999-032-022 NLG Upper Drag Strut Lower Lug Spotface  
 R999-032-023 NLG Down Latch Bar – Lock Pin Hole Bushing Installation;  
 R999-032-024 NLG Piston – Torque Arm Attach Lug Repair;  
 R999-032-025 MLG Torque Arms, Base Lug Bore Repair;  
 R999-053-001 Aft Cargo Door – Frame Splice  
 R999-053-003 Fuselage Aft Main Longeron Repair Splice – Sta 517.75  
 R999-053-004 Fuselage – Center and Aft Main Longeron Repair  
 R999-053-005 Fitting – Fuselage to Rear Spar – Alternate Fitting Installation  
 R999-053-007 Frame, Rear Service Door Repair  
 R999-053-008 Fuselage – RH Rear Cargo Door Frame Repair  
 R999-053-009 Overwing Floor Support Beam – Alternate Web Installation  
 R999-054-003 Skin to 906403 Lower Longeron Attachment  
 R999-078-001 Tailpipe Duct – Forward Clamping Flange Repair  
 R999-080-001 GTC Alternator, Bracket Assembly – Oversize Bushing

KFL has developed numerous Supplemental Type Certificates in support of the Convair aircraft, some of the more recent ones are mentioned below:

### STC Examples:

SA09-68 CV580/5800 Extended Fuel System  
 SA09-61 Replacement of Wing/Fuselage Disconnects  
 P-LSA08-089 CV5800 Palletized Cargo Handling System, Fruehauf Floor  
 SA04-107 CV5800 TCAS  
 SA04-108 CV5800 TAWS  
 SA08-83 Interior Installation, Cargo Conversion CV580  
 SA08-84 CV580 Cargo Floor and Pallet Loading Installation  
 SA09-73 CV5800 ELT Installation  
 SA08-15 CV580/CV5800 Annunciator Panel Modification

KFL has several additional modifications and part replacements we are currently working on, in the form of upcoming Service Bulletins and STC's. This includes replacement instruments, antennas and relays, ELT installations, replacement oxygen regulator, etc. Operators will be made aware of these modifications and part replacements as they are approved through our Convair Newsletters.

