



## CUSTOM KIT INDEX

CK 46A      ELECTRICALLY HEATED FUEL TANK VENTS      20 June 1966

To provide safety feature of prevention of ice formation over fuel tank vents; operates automatically when pitot heat is used. Models 560A, 560E and 680.

CK 50      RUDDER PEDAL AND CONTROL COLUMN BOOT KIT INSTALL      17 December 2013

To provide replacement parts and instructions for the installation of rudder pedal and control column boots for aircraft pressurized to the floor. Models (All) 680, 680FL, 680FL(P), 680F(P), 680T/V/W, 681, 685, 690, 690A/B/C, 695

CK 68B      ELECTRIC WINDSHIELD WIPER      24 February 1975

To provide improved visibility for Models 500S, 560E, 560F, 680E, 680F, 680T and 681.

CK 73      BAGGAGE COMPARTMENT EXTENSION      27 November 1963

Modification increases baggage compartment space to 48 cubic feet / 350 pounds for Models 500A, 500B, 560F, 680E and 680F.

CK 81B      WING LOWER SPAR CAP REINFORCEMENT KIT      17 March 65

Modification to add reinforcing straps to the lower spar cap between wing stations 38.00 left and right. Models 500, 500A, 500B, 520, 560, 560A, 560E, 560F, 680, 680E, 680F, 680FL, 680F(P), 680FL(P), 720, RL26C, RL26D.

CK 82A      WING ICE INSPECTION LIGHT INSTALLATION      27 March 1967

Provides night flying safety feature by illuminating wing leading edge. Models 500A, 500B, 500S, 500U, 560F, 680F, 680FL, 680FL(P), 680F(P), 680T, 680V, 680W, and 681.

CK 87A      NON-SIPHONING FUEL FILLER CAP      10 September 1973

Easily installed kit, cap interchangeable with present cap. Fuel tank remains sealed even if cap is not secure. Models 500, 500A, 500B, 500S, 500U, 520, 560, 560A, 560E, 560F, 680, 680E, 680F, 680FL, 680FL(P), 680F(P),

CK 94      ALTERNATE STATIC PRESSURE SOURCE      28 February 1967

Provides added safety feature of alternate static source for flight instruments for all prop driven Models except 520, 560, 720.

CK 97      IMPROVED HEATED STALL WARNING SWITCH INSTALLATION      10 June 1967  
Rev 1 dated 24 Nov 1967

Modification approved for 'All-Weather' flight conditions with new visual speed control indicator and 'Tellite' switch installations for Models 500A, 500B, 500U, 560F, 680F, 680FL, 680FL(P), 680F(P), 680T.

CK 105      IMPROVED PROPELLER ELECTRICAL DEICER SYSTEM      11 June 68  
Rev 1  
Rev 2 dated 12 December 1972

Modification features convenient single-switch control for Models 500S, 500U, 560F, 680F, 680FL, 680FL(P), 680F(P).



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CK 109A      100-AMPERE ALTERNATOR INSTALLATION      15 February 1971  
Rev 1 Oct 13 1972

Modification features lower engine RPM charging capabilities, improved system reliability, and sufficient amperage output to assume additional electrical loads that may be imposed on the systems of Models 500B, 500S, 500U.

CK 110      FUEL LOW LEVEL WARNING SYSTEM      1 April 1970

Provides a fuel low level warning system for the earlier Commander Models except 680T, 680V, 680W, 681.

CK 111      IMPROVED CABIN DOOR SEAL      14 August 1970

Modification provides an improved cabin door seal assembly that allows a more positive door seal and smoother door operation for Models 680T, 680V, 680W, 681.

CK 112      IMPROVED ENTRANCE DOOR LOCKING MECHANISM AND BAYONET      1 September 1970

Modification provides an improved entrance door locking mechanism and bayonet release assembly for Model 680FL(P) and a bayonet release assembly for Models 680T, 680V, 680W.

CK 115      PROPELLER DEICER AMMETER INSTALLATION      3 June 1971

Modification provides an accurate indication of each propeller boot operation and an accurate visual indication that propeller deicer system is operating within designed electrical load limits for Models 680T, 680V, 680W, 681.

CK 116A      IMPROVED ENGINE OIL SEPARATOR      15 May 1972

Modification provides an improved oil separator for better air oil separation for aircraft equipped with pneumatic operated equipment. Models 500B, 500S, 500U, 560F, 680F, 680FL, 680FL(P), 680F(P) equipped with H-14 Autopilot and/or deicing boots.

CK 118      LANDING GEAR WARNING HORN SILENCER INSTALLATION      16 February 1973

Allows the pilot to silence the gear warning horn when descending from altitude with the power levers in the flight idle position. Gear warning horn will automatically reset when power levers are advanced or, when flaps are lowered with throttle(s) retarded. Model 690 SN 11003 through 11019.

CK 119A      BATTERY TEMPERATURE MONITORING SYSTEM      1 June 1973

Provides a visual means for monitoring battery temperature, which can be lowered by reducing electrical load, thereby increasing battery life. Model 690.

CK 120      DUAL OUTFLOW VALVE INSTALLATION      13 April 1973

Control of both outflow valves, coupled with new nose cone vent, helps minimize pressurization surges. Outflow valves are controlled to close at a rate that insures smooth initial pressurization of cabin for improved passenger comfort. Models 681, 685, 690.



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CK 121      FUEL VENT CHECK VALVE INSTALLATION      23 May 1973

Prevents aircraft with long-range fuel systems from venting fuel overboard through wing vents during fueling and taxiing. Models 680T, 680V, 680W, 681.

CK 122      AIR COOLED BATTERY INSTALLATION      21 June 1973

Provides a means to prevent batteries from overheating and thereby increasing battery life. Models 681 and 690 SN 11005, 11008, 110118, 11021 and 11022.

CK 123      IMPROVED NOSE COWL ASSEMBLY      21 August 1973

Modification of nose cowl assembly permitting removal of nose cowl without removing propeller. Improves accessibility for engine maintenance and substantially reduces propeller removal and installation time. Model 685.

CK 125      POSITIVE DOOR STOP      10 October 74

Provides a positive stop for the cabin entrance door on long fuselage Twin Commanders giving protection for door hinges and fuselage structure. Models 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690.

CK 126      PARALLELING ALTERNATORS      24 July 1975

Installation of Lamar Voltage Regulators provides capabilities for paralleling alternators and better utilization of alternator power. Model 500S.

CK 127      ENVIRONMENTAL SYSTEM WATER SEPARATOR INSTALLATION      7 July 1976

Provides a water separator for environmental system to prevent moisture from entering cabin area through cabin air outlets. Model 690A.

CK 128B-2      FIREWALL BLEED AIR SHUTOFF SYSTEM      27 January 2012

Provides firewall shutoff valves for the bleed air system and a system to warn of high temperatures in the aft fuselage (that may be caused by bleed air leaks). Models 690A, 690B.

CK 129E      INERTIA REEL AND SHOULDER HARNESS INSTALLATION      3 October 2012

Provides inertia reel and shoulder harness for crew seats. Models 500S, 685, 690, 690A, 690B.

CK 130      NEW ELECTROLUMINESCENT PANEL POWER SUPPLY INSTALLATION      4 November 1977

Rev 1 Dec 8 2006

Provides a spares replacement kit for replacing the electroluminescent (E.L.) power supply on Models 690A, 690B.

CK 131      BLEED AIR SYSTEM MODIFICATION      31 August 1978

Rev 1 Aug 30 2007

A modification that increases the reliability of the bleed air system by removing the systems bleed air bypass valve and blocking the direct bleed air path. Model 690A.



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CK 132      EXTENDED RANGE FUEL SYSTEM MODIFICATION KIT      2 March 1981  
Rev 1 July 13 1982

An extended range fuel system modification that increases usable fuel capacity from 425 gallons to 474 gallons for a range increase of approximately 240 nautical miles. Models 690C, 695.

CK 133      IMPROVED SIDE WINDOW DEFOG SYSTEM      15 September 1981

Modification utilizes conditioned air to prevent pilot and copilot side window from fogging. It also provides pilot and copilot removable inner windows which eliminate cold air on the crew's shoulder. Models 690A, 690B, 690C, 695.

CK 134      IMPROVED INLET AIR SUPPLY FOR ENVIRONMENTAL      11 January 1982

Provides improved efficiency of Environmental Control Unit (ECU) by ducting only outside air across heat exchanger. Models 690C, 695.

CK 135      AURAL MACH OVERSPEED WARNING SYSTEM      29 September 1982

Provides a fully automatic airspeed monitoring system, which, because of the low drag feature that allows the Commander jet props to easily increase airspeed during let down, has introduced the added safety feature of an aural warning in the event of an inadvertent overspeed of the airplane. The sensing switch is pre-set to aurally alert the pilot of airspeeds exceeding 243 KIAS. Models 690, 690A, 690B, 690C, 695.

CK 136      IMPROVED TAIL LIGHT/STROBE LIGHT ASSY      15 November 1984

Provides individual strobe light and individual tail light that is more economical to maintain with longer rated bulb life. Models 690B, 690C, 690D, 695, 695A.

CK 137      WINDSHIELD ANTIFOG SYSTEM      18 January 1985

Eliminates internal fogging of windshields and subsequent moisture problems. The gold-tinted heat film also acts as a sunscreen. Models 690, 690A, 690B, 690C, 690D, 695, 695A, 695B.

CK 138      AUTOMATIC IGNITION SYSTEM      15 April 1987

Provides automatic ignition for both engines in case of engine flameout during takeoff and landing on wet runways and during flights in icing conditions. Automatic ignition is not limited to only these conditions; it is available anytime the engine RPM is above 60 percent. Models 690C, 690D, 695, 695A, 695B.

CK 139      AUTOMATIC IGNITION SYSTEM      28 May 1987  
Rev 1      9/1/1987

Provides automatic ignition for both engines in case of engine flameout during takeoff and landing on wet runways and during flights in icing conditions. Automatic ignition is not limited to only these conditions; it is available anytime the engine RPM is above 60 percent. Models 680T, 680V, 680W, 681, 690, 690A, 690B.

CK 140      HYDRAULIC NOSE STEERING SYSTEM CONVERSION TO      1 March 2011  
BRAKE PEDAL ACTUATED  
Rev B      3/1/2011

Modification to replace your electro-hydraulic nose wheel steering system with a brake-pedal actuated hydraulic nose steering system. Models 690C, 690D, 695A, 695B.



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CK 141      ENVIRO AIR CONDITIONING AND PRESSURIZATION SYSTEM      17 July 1992  
INSTALLATION

Provides an alternative air conditioning system for Models 690C and 695.

CK 144C      LOWER SPAR CAP REPLACEMENT      19 June 2012

Provides replacement of the lower spar cap to restore the structural integrity of the original design of the Models 685, 690, 690A, and 690B.

CK 145A      LOWER MAIN SPAR REPLACEMENT      20 February 2001

Provides replacement of the lower spar cap to restore the structural integrity of the original design of the Models 500S, 500U, 680FL, 680FL(P), 680W, and 681.

CK 150      LOWER WING ACCESS HOLE KIT      8 July 1994

Provides approved access hole installation for inspection of lower wing spar (SB 208A) inside of wing between Stringer No. 7 and Stringer No. 8 at Wing Stations 79.00 and 106.36 or for access to gear trunnion fasteners requiring replacement for Models 690, 690A and 690B.

CK 151B      RECOGNITION LIGHT KIT      28 March 2000

Provides an approved recognition light installation to increase the visibility of the airplane during flight for the Models 500S, s/n 3076 and later, 680W, s/n 1726 thru 1850, 681, 685, 690, 690A, and 690B, all serial numbers. Two kits are available--one with a pulsing function and one without.

CK 158      ADDITION OF INBOARD DEICE BOOTS      8 January 1996  
Rev 1 January 8 2013

Provides an approved installation for the addition of inboard de-ice boots for the Models 690, 690A, 690B, 690C, and 695.

CK 159 C      NOSE GEAR AND GEAR SUPPORT MODIFICATIONS      9 October 2013

Provides approved modifications for nose gear and nose gear support structure problems caused by wear, overload conditions, prior AC-43.13 repairs, etc., for all Models.

CK 161      EXHAUST DUCT MODIFICATION      27 July 1998

Provides an approved modification of the original design exhaust installation for the Models 690, 690A, and 690B.

CK 162C      LOWER FUSELAGE REPAIR      14 December 1999

Provides approved kits for repair of the lower fuselage stringers and lower floor keel beam caps for Models 500, 500A, 500B, 500S, 500U, 520, 560A, 560E, 560F, 680, 680E, 680F, 680FL, 680FLP, 680FP, 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 695 and 720. Kits may be ordered based on extent of damage.

CK 163      PPG WINDSHIELD MOISTURE SEAL INSTALLATION AND REPAIR      4 August 1998  
PROCEDURE FOR INSTALLED TWIN COMMANDER WINDSHIELDS

Provides an approved procedure for installed windshields for the addition or repair of hump seals as the primary weather seal between the glass and fiberglass strap for the Models 690, 690A, 690B, 690C, 690D, 695, 695A, and 695B.



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CK 164      F.S. 234.00 - 239.15 FUSELAGE SKIN REPAIR LOWER AFT CORNER OF BAGGAGE DOOR      27 July 2000

Provides an approved repair for skin wrinkles / buckles located between fuselage stations 234.00 and 239.15 aft of the lower aft corner of the baggage door for Models 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, and 695. This kit adds an external skin doubler in the damaged area

CK 167      TAIL CONE INSTALLATION      1 September 2005

Provides Models 500S (SN 3076 thru 3323 only) 680T, 680V, 680W, 681, 690A, 690B, 690C, 690D, 695, 695A, and 695B with a later production standard single-piece tail cone. Also allows for the replacement of the "Stinger" tail cone for Models 690A and 690B.

CK 170      SHOULDER STRAP INSTALLATION      12 January 2015

Provides a shoulder harness restraint system for the crew seats for the Models 690, 690A, and 690B. The available kits allow you to order the shoulder strap with the kit or to order the kit (hardware and installation instructions) and provide the strap from local sources.

CK 175A      LOWER RIB REPLACEMENT-VERTICAL STABILIZER      31 August 2004

Provides an easy-to-install vertical stabilizer lower rib replacement part and an Alternate Means of Compliance for Service Bulletin 218 (AD 95-13-02) for Models 500, 500A, 500B, 500S, 500U, 560, 560A, 560E, 560F, 680, 680E, 680F, 680FL, 680FL(P), 680F(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A and 720.

CK 176      REPLACEMENT AMMETER FOR PROP DEICER      6 June 2003

Provides an approved replacement for the original-equipment prop de-icer for the Models 685, 690, 690A, and 690B.

CK 177      LONGER SEAT TRACKS FOR CREW SEATS      31 July 2003

Provides longer replacement seat tracks for the pilot and co-pilot seats allowing the seats to slide farther aft, giving better access while on the ground. Models 690, 690A, 690B, 690C, and 695.

CK 178      REPLACEMENT VACUUM FILTER      3 October 2014

Provides an approved replacement for the original-equipment vacuum filters for all Twin Commander aircraft that use the AN5822-1 filter for the vacuum system.

CK 181      TAIL TIE-DOWN BUMPER REPLACEMENT      27 June 2006

Modification designed to repair and replace damage to surrounding skin and attachment structure of the tail tie-down bumper. The modification also improves the attachment of the bumper support to F.S. (429.477 long fuselage) or (355.477 short fuselage) frames. Models 500, 500A, 500B, 500S, 500U, 560, 560A, 560E, 560F, 680, 680E, 680F, 680FL, 680FL(P), 680F(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B.

CK 182M      HID LANDING LIGHT KIT      16 December 2014

Provides an approved nose cone mounted landing light installation which increases the visibility of the airplane during landing and have no restrictions regarding when they can be activated during flight. The latest revision includes improved reflector design and replacement ballast. Models 500S, 680W, 681, 685, 690, 690A, 690B.



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CK 183F      ENVIRO PRESSURIZATION SYSTEM INSTALLATION      18 March 2011

Provides an approved, alternative Environmental Control System. Note The -553 kit allows for upgrading an existing ENVIRO installation to the new Temperature & Flow control modules & Flow sensor. For all serial numbers for Models 690C, 690D, 695, 695A, 695B, & also for all serial numbers that have not previously complied with earlier modification to Gulfstream Dwg 880718 (Environmental system installation). For conversion from Sundstrand to Enviro, bleed air only.

CK 184      RUDDER PEDAL SEAL PLUG INSTALLATION      11 November 2011

To provide rudder pedal installation for all serial numbers for Models 680, 680FP, 681, 680T, 685, 690, 690A 690B, 690C, 695

CK 185      RUDDER PEDAL SEAL PLUG INSTALLATION      11 November 2011

To provide rudder pedal installation for all serial numbers for Models 690D, 695A, 695B

CK 186      REPLACEMENT OF WELDON FUEL BOOST PUMPS WITH PARKER AIRBORNE FUEL BOOST PUMPS      15 November 2021

To provide approval and instruction for the replacement of Weldon Fuel Pumps with Parker Airborne Div. Fuel Pumps ...for Models 690C, 690D, 695, and 695A

CK 187      MAIN LANDING GEAR LINKAGE KIT      15 August 2012

This kit provides an approved main landing gear door torque tube mod. This is a design improvement for models 680W, 680T, 680V, 681, 690, 690A/B/C/D, 695, 695A/B.

CK 188      INSTRUCTIONS FOR INSTALLATION OF OXYGEN BOTTLE FILL PORT      30 November 2012

This kit provides approval and instruction for the addition of the oxygen fill port for airplanes not equipped with such. For models 690A, 690B, 690C, and 695

CK 189      CENTER FUEL TANK LINER REUSABLE FASTENER INSTALLATION KIT      10 April 2013

Rev 1 dated 23 July 2013

Repeated removal and reinstallation of the center fuel cell and liner system leads to damage to the parts and oversized assembly holes. This kit provides approved installation of reusable fasteners for assembly of the fuel cell liner system. For Models: 560A/E/F, 680, 680FL/FL(P)/F(P), 680T/V/W, 720, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B

CK 190 B      REPLACEMENT OF FLUORESCENT TUBE CABIN LIGHTS WITH LED LIGHTS      20 June 2014

Replacement of fluorescent overhead cabin lights with low voltage LED (light emitting diode) lights reduces the overall electrical load and eliminates the need for the power supply which converts the 28 VDC of the aircraft to the 120 VAC required by the fluorescent lights. In addition, the life and brightness of the LED lights is significantly greater than that of the fluorescents. For Models: 690A, 690B, 690C, 690D, 695, 695A, 695B



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CK 191      LEFT SIDE LONG SEAT RAIL INSTALLATION KIT INSTRUCTIONS      13 May 2014

To provide approval and instruction for long seat rails on the left side for passenger convenience.  
For Models: 680FL, 680T, 680W, 681, 685, 690, 690A, 690B, 690C, and 695.

CK 193      410073 Dorsal Water Evacuation System      Rev B      21 August 2015

**REASON FOR PUBLICATION:**

The installed Dorsal does not allow dispersion of moisture that builds up in the cavity between the Dorsal and the fuselage, which leads to corrosion on the fuselage skin under the Dorsal. This kit includes a system of parts to be installed under the Dorsal to provide channels for moisture to drain out of the cavity. Note: Refer to CK196 if a new Dorsal is desired or the existing Dorsal is damaged beyond repair. CK196 installs a dorsal with a built in drainage system, and is effective for models 690A/B. all

CK 194      Instructions for Installation of improved "Baggage Door Open" Switch      13 January 2015

To provide approval and instruction for the installation of an alternate switch for "Baggage Door Open" indication.  
For Models: 690D Serial Numbers 15000 thru 15031, and 695A Serial Numbers 96000 thru 96061.

CK 195      410014-9 Composite Laminate Dorsal Fin      Rev IR      21 April 2015

**REASON FOR PUBLICATION:**

To replace Dorsal Fin made of plastic with more durable Composite Laminate material and is effective for models 690A/B. all

CK 196      410073-25 Composite Laminate Dorsal Shell with Moisture Dispersion System      22 April 2015  
Rev IR

**REASON FOR PUBLICATION:**

The Dorsal of the original design (P/N 430073-1/-501/-503/-505/-507) does not allow dispersion of moisture that builds up in the cavity between the Dorsal and the Fuselage, which leads to corrosion on the fuselage skin under the Dorsal. This kit includes a Dorsal that provides channels for moisture to drain out of the cavity and is effective for models 690A/B. all

CK 197      Beta Pressure Switch System Modification      11 June 2015  
Rev IR

**REASON FOR PUBLICATION:**

This Custom Kit provides an approved modification to the Beta Pressure System. The addition of a restrictor before the Beta Pressure Switch will dampen pressure fluctuations in the system, eliminating the Beta pressure Indicator Light to flicker in flight and is effective for all 690, 690A, and 690B models.

CK 198      410080 Dorsal Water Evacuation System      30 October 2015  
Rev IR

**REASON FOR PUBLICATION:**

The installed Dorsal does not allow dispersion of moisture that builds up in the cavity between the Dorsal and the fuselage, which leads to corrosion on the fuselage skin under the Dorsal. This kit includes a system of parts to be installed under the Dorsal to provide channels for moisture to drain out of the cavity. Models 690C/D, 695, 695A/B all.



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CK 200      410080 Composite Laminate Dorsal Shell With Moisture Dispersion System      6 November 2015  
Rev IR

**REASON FOR PUBLICATION:**

The Dorsal of the original design (410080-3, -1 installation does not allow dispersion of moisture that builds up in the cavity between the Dorsal and the fuselage, which leads to corrosion on the fuselage under the Dorsal. This kit includes a replacement Dorsal that provides channels for moisture to drain out of the cavity, and is for replacement of a previously installed 410080 Dorsal. Models 690C/D, 695, 695A all.

CK 202      Instructions for Installation of Improved Remotely Controlled Circuit Breakers      12 April 2016  
Rev A

**REASON FOR PUBLICATION:**

To provide approval and instruction for the installation of an alternate Remotely Controlled Circuit Breaker Models: 690A, 690B

CK 203      Instructions for Rudder and Elevator Trim Potentiometer Replacement      20 April 2016

**REASON FOR PUBLICATION:**

This kit provides instructions for replacement of 850626-503 and 850633-503 Transmitters Models 690C/D, 695, 695A 695B all.

CK 204      Landing Gear Warning Horn Installation      10 June 2019

**REASON FOR PUBLICATION:**

This kit provides instructions for replacement of 53514-3 and 53534-103 Horns, which are no longer available. Models 500S: 3155 thru 3323, 685: 12028 thru 12066, 690: 11070 thru 11085, 690A: 11248, 11250 thru 11268.

CK205      NLG Steering Spacer Installation      07 April 2020

**REASON FOR PUBLICATION:**

This kit provides instructions for replacement of the 750080-1 & ES10119 spacer, which is a two piece unit. Models 560: 191-230, 560A/E/F, 500A/B/U/S, 680E/F/FP/FL/FLP/T/V/W, 681, 685, 690A/B/C/D, 695A/B.