

Waco Regional Airport • P.O. Box 5500 • Waco, Texas 76708

Beechcraft King Air 90 Series AUXILIARY FUEL



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

ICA Manual No. 26005-30 Revision 2 January 2021



RECORD OF REVISIONS

Rev. No.	Date Inserted	Ву	Rev. No.	Date Inserted	Ву	Rev. No.	Date Inserted	Ву

When a revision to this manual is issued, insert the revised or added pages into the manual. Record the revision number, date inserted, and the initials of the person responsible for the update on this page.





REVISION LOG

Rev. No.	Rev. Date	Change Description	Page(s) Affected
1	9/1/14	ADD KING AIR 90 SERIES ELIGIBILITY.	ALL
2	JAN. 2021	INTRODUCTION - UPDATE GENERAL INFORMATION.	1-3
		CH. 4 - UPDATE AW. LIM. FORMAT; ADD BEECHCRAFT MANUAL REF.	5
		CH. 5 - UPDATE INFO., FORMAT & INSPECTION TIMES SIMILAR TO KA200/300.	7-10
		CH. 11 - UPDATE INFO.; ADD PLACARD ILLUSTRATIONS.	11-13
		CH. 12 - ADD FUEL SYSTEM DETAILS; ADD LANDING GEAR SERVICING.	15
		CH. 28 - ADD SECTIONS GENERAL, CONTENTS, DESCRIPTION AND OPERATION, FILLER CAP INSP., FUEL SCREEN CLEANING, LEAK REPAIR, MATERIALS, AND INDICATOR REMOVAL & INSTL.; ADD VENT BLOCKAGE TO TROUBLESHOOTING; ADD DETAILS TO FAIRING REMOVAL & INSTL. (WAS CH. 54), FUEL SCREEN INSP., REMOVAL & INSTL., CHECK VALVE INSP. & REPL., TANK INSTL., LEAK TEST, FUNCTIONAL TEST, AND OPTICAL LEVEL SWITCH REMOVAL & INSTL.; ADD AMBER LED TROUBLESHOOTING INFO.; ADD FIGS. 4 & 5.	19-31





LIST OF EFFECTIVE PAGES

Pages	Rev.	Date
900	No.	
Title	2	1/21
Record of Revisions	1	9/1/14
Revision Log	2	1/21
List of Eff. Pages	2	1/21
1-4	2	1/21
5-6	2	1/21
7-10	2	1/21
11-14	2	1/21
15-16	2	1/21
17-18	2	1/21
19-32	2	1/21
A1-A38	1	9/1/14
B1-B12	1	9/1/14
	Record of Revisions Revision Log List of Eff. Pages 1-4 5-6 7-10 11-14 15-16 17-18 19-32 A1-A38	Pages No. Title 2 Record of Revisions 1 Revision Log 2 List of Eff. Pages 2 1-4 2 5-6 2 7-10 2 11-14 2 15-16 2 17-18 2 19-32 2 A1-A38 1

Section	Page	Rev. No.	Date





INTRODUCTION

GENERAL

This ICA Manual provides the Instructions for Continued Airworthiness (ICA) for Beechcraft King Air 90 series airplanes modified by CenTex Aerospace's (CTA) *Saddle Tank STC*. The Saddle Tank STC modification installs auxiliary fuel tanks, called "saddle tanks," on the wing, behind each engine nacelle as approved under FAA Supplemental Type Certificate (STC) number SA11142SC.

ASSOCIATED DRAWINGS

The following CenTex Aerospace drawings are provided to install the auxiliary fuel tanks on the airplane. These drawings are listed as reference and are not required for maintaining the continued airworthiness of the airplane. Contact CenTex Aerospace for assistance in obtaining a copy of a specific drawing.

Number	Title
26005-2000	INSTALLATION, AUXILIARY FUEL TANK
26005-3000	INSTALLATION, NACELLE FAIRING, AUXILIARY FUEL TANK ASSEMBLY
26005-4000	INSTALLATION, FUEL SYSTEM MOD., AUXILIARY FUEL TANK ASSEMBLY
26005-5001	WIRING DIAGRAM, FUEL LEVEL INDICATION, AUXILIARY FUEL TANK
26005-6000	INSTALLATION, FUEL LEVEL INDICATION, AUXILIARY FUEL TANK ASSEMBLY
26005-7000	INSTALLATION, PLACARDS, AUXILIARY FUEL TANK ASSEMBLY
26005-8000	TANK REMOVAL & NACELLE SKIN REINSTALLATION

DESCRIPTION OF MODIFICATION

The Saddle Tank STC installs a set of the following saddle tanks on the airplane:

• 90-gallon full fuel tanks (ST180 tanks)

The aluminum auxiliary fuel saddle tanks are mounted on the upper wing behind the engine nacelles. The saddle tanks are secured to the upper wing structure with five (5) AN4 (1/4 inch dia.) bolts and the existing nacelle structure with sixteen (16) AN525-832 (#8) screws. An aluminum fairing between the engine nacelle and tank provides a smooth transition for air flow around the saddle tank. An door on top of the fairing provides access to the nacelle tank filler cap.

Exterior placards mark the saddle tank fillers, nacelle filler access, and fuel drains added for this conversion.

The existing fuel system is modified so that fuel from the saddle tank can gravity feed into the ship's center section fuel tank. A fuel supply line at the bottom of the saddle tank goes through the landing gear wheel well and connects to the fuel line located between the main wing interconnect line and the nacelle tank, downstream of the interconnect check valve. See **Figure 1** on the next page for the modified aircraft fuel system schematic. See **Figure 1a** on the next page for a layout of the saddle tank fuel system. A smaller check valve in the saddle tank fuel line prevents fuel from migrating back into the saddle tank. Drain valves in the saddle tank and the fuel supply line (aft wheel well area of nacelle) allows the tank to be sumped and drained.

The auxiliary fuel saddle tanks each have an inlet and outlet vent line protruding up from the tank floor. The vent lines open at the top of the expansion space in the tank near the fuel filler adapter. The saddle tanks vent through the ship's fuel vent system. The saddle tank vent lines connect to the existing vent lines behind the main spar in the main landing gear wheel well.



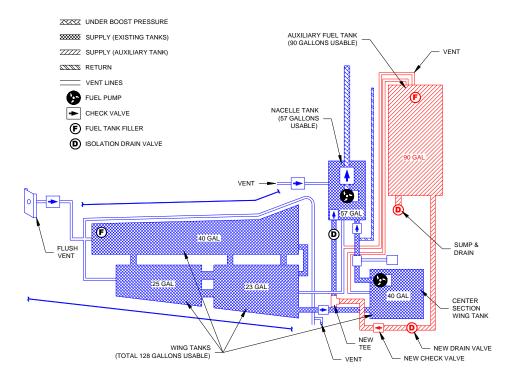


Figure 1. Fuel System Schematic

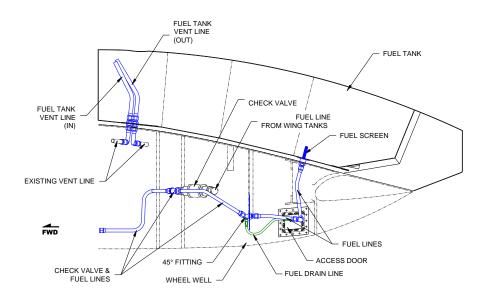


Figure 1a. Fuel System (LH side looking inboard)

The saddle tanks each include five optical fuel level sensors connected to an indicator unit mounted to the pilot's side wall. The indicator has five LED indicators for each tank, corresponding to an individual level sensor. When fuel is at or above the indicated level, the LED illuminates green. As fuel drops below each level sensor, the LED extinguishes with the exception of the last LED, which changes from green to amber.

Refer to the individual chapters in this manual for additional details and illustrations of saddle tank components and systems.

PAGE 2
MANUAL No. 26005-30 INTRODUCTION Rev. 2, Jan. 2021



MAINTENANCE

Airworthiness limitations, inspection procedures, servicing information, and maintenance procedures provided in this manual apply to the equipment and modifications associated with this STC and supplement the Beechcraft King Air 90 Series Maintenance Manual (AMM). For King Air 90 series aircraft modified by this STC, follow the inspection, servicing, and maintenance procedures in the AMM, except as provided herein. This manual uses the same chapter numbering and general format as the AMM.

For standard aviation maintenance practices, such as cutting, splicing, and replacing wire, routing and securing lines, inspecting electrical wiring and equipment, etc. use the techniques and practices found in FAA Advisory Circular AC 43.13-1B/2B or later FAA approved revision.

REPLACEMENT PARTS

Appendix A of this manual includes illustrated parts lists for the equipment specified herein. Contact CenTex Aerospace for replacement parts.

WIRING DIAGRAMS

Appendix B of this manual includes wiring diagrams for the systems specified herein.

MANUAL UPDATES

A copy of this ICA Manual is provided with the STC upon installation. When changes to this ICA Manual are made, CenTex Aerospace will provide updates to the registered airplane owner by email or direct mail. Contact CenTex Aerospace to make other arrangements. If there is a change in airplane ownership or operator, please notify CenTex Aerospace in order to keep all contact information current.

The changes to the ICA manual will be identified by revision number and date in the Revision Log. CenTex will provide the owner with the revised pages, a Revision Log, and an updated List of Effective Pages. The owner, or responsible party, will add or replace the pages affected by the revision and make an entry in the Record of Revisions in order to document the update to the ICA Manual is accomplished.

ASSISTANCE

For assistance with continuing airworthiness issues or any other issues related to this STC, contact Centex Aerospace at the following address or telephone number.

Centex Aerospace Inc. 7925 Karl May Drive Waco, Texas 76708 (254) 752-4290 http://www.centex.aero/





CHAPTER 4

AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

Beechcraft King Air 90 airplanes with CenTex Aerospace auxiliary fuel saddle tanks installed under STC SA11142SC have no changes or additions to the original Airworthiness Limitations established by Beechcraft.

For airplane component life limits or structural inspections, refer to the applicable Beechcraft manual.





CHAPTER 5 TIME LIMITS/MAINTENANCE CHECKS

GENERAL

The overhaul and replacement schedule and inspection programs in this chapter apply to the equipment installed as part of this STC. The format of the inspection programs is the same as those in Beechcraft's maintenance manuals and maintenance manual supplements. The terminology (phase, detailed, biennial, etc.) used in this chapter has the same meaning as Beechcraft's terminology. Use the AMM guidelines when following the replacement and inspection schedules specified herein. Use the *Saddle Tank Inspection* sheet in this chapter to record the completion of each required inspection item at the time of the scheduled inspection (phase 1, 2, 3, etc.). Retain this sheet with the normal aircraft maintenance records.

OVERHAUL AND REPLACEMENT SCHEDULE

The following auxiliary tank components should be replaced no later than the recommended period.

ITEM	OVERHAUL OR REPLACE
Fuel drain hoses	Replace every 10 years

SCHEDULED INSPECTION PROGRAM

For King Air 90 series airplanes following a scheduled inspection program in the Beechcraft Maintenance Manual, inspect the saddle tank items during the inspection marked below.

ITEM (4)	PHASE INSP				BIENN	BIENNIAL INSP	
ITEM (1)	1	2	3	4	INT	COMP	
Exterior placards	Х	Х	Х	Х	Х	Х	
Fuel drains operational check	Х	Х	Х	Х	Х	Х	
Fuel level indicator			Х			Х	
Fuel level indicator operational check	Х	Х	Х	Х	Х	Х	
Fuel level indicator placard	Х	Х	Х	Х	Х	Х	
Fuel level sensors		Х		Х		Х	
Saddle tanks	Х	Х	Х	Х	Х	Х	
Saddle tank fairings		Х		Х		Х	
Saddle tank plumbing	Х					Х	

NOTES:

(1) See the Saddle Tank Inspection sheet in this chapter for inspection details.





SADDLE TANK INSPECTION

Owner		Total Time	Total Cycles
W.O. No		Date In	Date Out
Serial No	Reg. No	STC Installed TIS	Cycles
Inspection (1,2,3,4,INT,COM	P):		
NOTE: Inspect only the item	o required by the applic	abla phasa ar athar inan	action as designated by an "Y

NOTE: Inspect only the items required by the applicable phase or other inspection as designated by an "X" in the inspection program table. Write "N/A" if an item is not required for the applicable inspection.

A. PILOT COMPARTMENT

	REFERENCE	MECH	INSP
FUEL LEVEL INDICATOR PLACARD - Check placard for proper adhesion, visibility, signs of damage.	26005-30 Ch. 11		
FUEL LEVEL INDICATOR - Check security of attachment. Check connectors & wiring for damage, chafing and security.	26005-30 Ch. 28		

B. LEFT WING

	REFERENCE	MECH	INSP
EXTERIOR PLACARDS - Check placards for proper adhesion, visibility, signs of damage.	26005-30 Ch. 11		
2. SADDLE TANK - Check tank exterior for loose rivets, fasteners, damage & leaks. Check wing mounting bolts (5) for security & proper installation. Inspect fuel cap for damage and attachment. Inspect the visible fuel cap packing for flexibility, splits, cracks, or distortion.	26005-30 Ch. 28		
3. SADDLE TANK FAIRING - Remove fairing. Check for security, missing fasteners & damage.	26005-30 Ch. 28		
SADDLE TANK PLUMBING - Check fuel and vent lines for leaks, security of attachment & signs of damage.	26005-30 Ch. 28		
5. FUEL LEVEL SENSORS - With fairing removed, check saddle tank optical level switches (5) for damage & leaks at mounting holes. Check connectors & wiring for damage, chafing and security.	26005-30 Ch. 28		

PAGE 9
MANUAL No. 26005-30 CHAPTER 5 Rev. 2, Jan. 2021



C. RIGHT WING

	REFERENCE	MECH	INSP
EXTERIOR PLACARDS - Check placards for proper adhesion, visibility, signs of damage.	26005-30 Ch. 11		
2. SADDLE TANK - Check tank exterior for loose rivets, fasteners, damage & leaks. Check wing mounting bolts (5) for security & proper installation. Inspect fuel cap for damage and attachment. Inspect the visible fuel cap packing for flexibility, splits, cracks, or distortion.	26005-30 Ch. 28		
3. SADDLE TANK FAIRING - Remove fairing. Check for security, missing fasteners & damage.	26005-30 Ch. 28		
4. SADDLE TANK PLUMBING - With fairing removed, check fuel and vent lines for leaks, security of attachment & signs of damage.	26005-30 Ch. 28		
5. FUEL LEVEL SENSORS - With fairing removed, check saddle tank optical level switches (5) for damage & leaks at mounting holes. Check connectors & wiring for damage, chafing and security.	26005-30 Ch. 28		

D. OPERATIONAL INSPECTION

	REFERENCE	MECH	INSP
FUEL LEVEL INDICATOR – Check the indicator during start and run of the engine to verify the LEDs illuminate according to the level of fuel in the saddle tanks. Conduct the "System Functional Test" only if necessary for troubleshooting or checking indicator function.	26005-30 Ch. 28		
FUEL DRAINS - Check saddle tank fuel drain valves (4) for proper operation.	26005-30 Ch. 28		

INSPECTION COMPLETED

I certify that this inspection was performed in accordance with the CenTex Saddle Tank Equipment Inspection Program and that the airplane is approved for return to service:

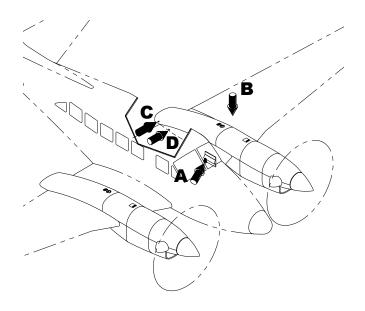
MECHANIC:	CREW CHIEF:	
INSPECTOR:	DATE:	



CHAPTER 11 PLACARDS AND MARKINGS

PLACARDS AND MARKINGS - DESCRIPTION AND OPERATION

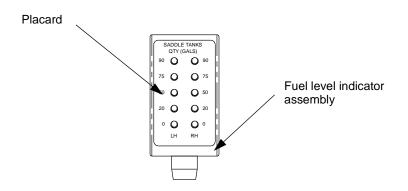
The placards and markings added to the airplane for this STC are located in the areas indicated below. Interior placards are in location A. Exterior placards are in locations B, C, D.



INTERIOR PLACARDS AND LIMITATION MARKINGS

Location A - Fuel Panel:

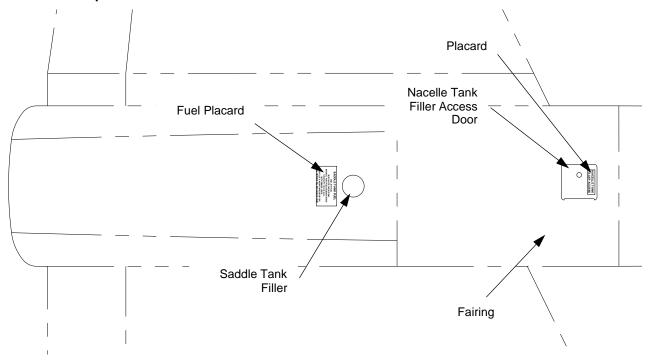
The placard on the fuel level indicator, located next to the pilot's seat, shows the quantity for each of the five fuel level sensors in both the left and right auxiliary fuel saddle tanks. Refer to the CTA airplane flight manual supplement for this STC.





EXTERIOR PLACARDS AND MARKINGS

Location B - Top of Saddle Tank & Nacelle Tank Filler Access Door:



1) Fuel Placard – located on top of each saddle tank, behind the fuel filler cap.

SADDLE TANK FUEL

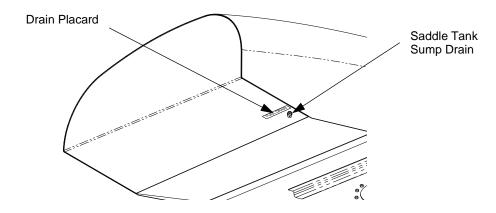
USE JET FUEL
SEE PILOTS OPERATING
MANUAL FOR FUEL DESIGNATIONS
CAPACITY: 90 U.S. GAL.
WITH WINGS LEVEL
NACELLE & MAIN TANKS MUST BE
FULL BEFORE FILLING SADDLE TANK

2) Nacelle Tank Filler Access Placard – located on door on top of fairing.

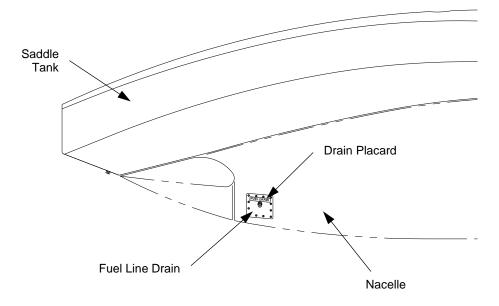
NACELLE TANK FILLER ACCESS



Location C – Bottom of Saddle Tank Sump Drain:



Location D – Inboard Wheel Well Nacelle Drain:



Drain Placard – located adjacent to the saddle tank sump drain and fuel line drain.



PLACARDS AND MARKINGS - MAINTENANCE PRACTICES

Inspect placard for damage and wear. Replace placard if it becomes illegible or is peeling or delaminating.

PAGE 13 MANUAL No. 26005-30 CHAPTER 11 Rev. 2, Jan. 2021





CHAPTER 12 SERVICING

GENERAL

In addition to the servicing information and procedures specified in the Beechcraft King Air 90 Series Maintenance Manual, follow the procedures below for equipment installed as part of this STC.

REPLENISHING

FUEL SYSTEM SERVICING

FILLING THE TANKS

Saddle Tanks

- 1) Fill the saddle tanks last. The saddle tank fuel caps are located on top of the tank, behind the nacelles. Verify both nacelle and wing tanks are full before filling the saddle tanks.
- 2) Do not fill the saddle tank beyond its specified capacity or above the bottom of the standpipe in the filler port.

DRAINING THE FUEL SYSTEM

Saddle Tanks

Drain the saddle tanks through the either of the two saddle tank drains or use the main fuel system drain.

LANDING GEAR SERVICING

LANDING GEAR

Shock Absorbers / Strut Servicing

Include full fuel in the saddle tanks when checking and adjusting the nose strut and main strut extension.





CHAPTER 24 ELECTRICAL POWER

ELECTRICAL LOAD DISTRIBUTION - MAINTENANCE PRACTICES

In addition to the information specified in the Beechcraft King Air 90 Series Maintenance Manual, the following electrical load data applies for the equipment installed as part of this STC.

ELECTRICAL LOAD UTILIZATION CHARTS

The equipment installed as part of this STC adds the following continuous loads.

ELECTRICAL EQUIPMENT

Equipment	No. Units Used	Load Ea. Unit Amps DC	Total Load Amps DC	Load per System Amps DC	Notes
FUEL LEVEL INDICATION SYSTEM				0.30	1
Optical level switches	10	0.008	0.08		
LED indicators	10	0.020	0.20		
Relay	2	0.010	0.02		

Notes:

1) The fuel level indication system is added to the existing fuel gauge circuit.





CHAPTER 28 FUEL

GENERAL

Follow the basic fuel system information and procedures specified in the Beechcraft Maintenance Manual. Follow the procedures in this chapter for equipment installed as part of this STC.

CONTENTS

SADDLE TANK FUEL SYSTEM - DESCRIPTION AND OPERATION

SADDLE TANK FUEL SYSTEM - TROUBLESHOOTING

SADDLE TANK FUEL SYSTEM - MAINTENANCE PRACTICES

FUEL FILLER CAP INSPECTION

FAIRING REMOVAL AND INSTALLATION

FUEL SCREEN INSPECTION

FUEL SCREEN REMOVAL AND INSTALLATION

FUEL SCREEN CLEANING

CHECK VALVE INSPECTION AND REPLACEMENT

SADDLE TANK REMOVAL

SADDLE TANK INSTALLATION

SADDLE TANK LEAK TEST

SADDLE TANK LEAK REPAIR

SADDLE TANK MATERIALS

SADDLE TANK FUEL INDICATING SYSTEM - DESCRIPTION AND OPERATION

SADDLE TANK FUEL INDICATING SYSTEM - TROUBLESHOOTING

SADDLE TANK FUEL INDICATING SYSTEM - MAINTENANCE PRACTICES

FUEL LEVEL INDICATING SYSTEM FUNCTIONAL TEST

FUEL LEVEL INDICATOR REMOVAL AND INSTALLATION

OPTICAL LEVEL SWITCH REMOVAL - FRONT BULKHEAD (3 PLCS)

OPTICAL LEVEL SWITCH REMOVAL – AFT BULKHEAD (2 PLCS)

OPTICAL LEVEL SWITCH INSTALLATION



SADDLE TANK FUEL SYSTEM – DESCRIPTION AND OPERATION

The Saddle Tank STC adds a pair of all-aluminum, external fuel tanks connected directly to flow through an integral strainer into each wing fuel tank by gravity. Refer to the fuel system diagram in **Figure 1** on page 2. The functions of the airplane's wing and nacelle fuel systems are unchanged by the addition of the saddle tanks.

The saddle fuel tanks are mounted behind each engine nacelle to the upper surface of the wing. Five ¼-inch (AN4) bolts hold each tank to the wing. Also, sixteen screws attach the front of the tank to the engine nacelle structure.

Each tank has its own filler opening located on top of the saddle tank and a sump drain at the lower, aft end of the saddle tank. The main fuel line from the saddle tank goes through the back of the wheel well and enters at the airplane fuel system through a modified line located between the main interconnect line and the nacelle tank as shown in **Figure 1a** on page 2. There is a low-point drain for the saddle tank fuel line at the aft, inboard side of the nacelle fairing. There is also a check valve in the saddle tank fuel line to prevent fuel migratrating from the wing tank into the saddle tank.

Ventilation for the saddle tank is provided by the airplane's existing vent system. The existing vent line, running from the center section wing tank to the outer wing and nacelle tanks, is modified and routed up, through the wing and into the saddle tank as shown in **Figure 1a** on page 2.

SADDLE TANK FUEL SYSTEM - TROUBLESHOOTING

If the saddle tank auxiliary fuel system is not working properly, consult **Chart 1** below for possible problem indicators, causes and solutions. Use this chart in conjunction with the procedures in *Fuel - Maintenance Practices*.

Chart 1. Troubleshooting Fuel System

Indication	Possible Cause	Remarks	
Fuel from saddle tank not transferring to center wing tanks.	a) Tank outlet screen assembly (finger screen) is blocked.	a) Follow procedure to inspect and clean or replace screen assembly.	
	b) Check valve not opening.	b) Clean, repair, or replace check valve.	
Fuel from saddle tank slow or hesitant in transferring	a) See possible causes above.	a) See remarks above.	
to center wing tanks.	b) Blockage in ventilation system.	 b) Inspect vent lines and vent openings for blockage. 	

PAGE 20 MANUAL No. 26005-30 CHAPTER 28 Rev. 2, Jan. 2021



SADDLE TANK FUEL SYSTEM - MAINTENANCE PRACTICES

The saddle tanks may need to be checked for dirt or debris to prevent restrictions to the fuel flow. If noticeable amount of debris is found at the outlet screen in the fuel tank, it is advisable to also inspect the check valve inside wheel well. To check the fuel screen, follow the steps below.

FUEL FILLER CAP INSPECTION

Visually inspect the fuel filler cap. Open the cap. Verify the cotter pin and lanyard are secure. Check all visible packings to make sure they are in good condition. Check the outer packing for flexibility, splits, cracks or distortion. If the packing is damaged, replace the fuel filler cap.

FAIRING REMOVAL AND INSTALLATION

In order to access the front of the saddle fuel tank or to remove the tank, remove the fairing between the engine nacelle and saddle tank as follows.

- a. Remove existing access panels on the inboard and outboard sides of the nacelle.
- b. Remove #8 screws, washers & nuts securing the fairing to the nacelle (20 each).
- c. Remove the remaining screws securing the fairing to the top of the nacelle firewall, nacelle, fairing support brackets, and saddle tank.
- d. Carefully pull the fairing off so as to avoid scratching the wing or nacelle.
- e. Check the fairing for condition. Repair dents or damage to sheet metal per Beechcraft AMM.
- f. To install fairing, place it back on the saddle tank and nacelle.
- g. Fasten the fairing to the saddle tank, support brackets, and nacelle using the original hardware.
- h. Reinstall the access panels removed from the nacelle.

FUEL SCREEN INSPECTION

- a. Lower wing flaps (full down).
- b. Disconnect all electrical power from the airplane.
- c. Make sure existing wing tank is empty or below 1/8 capacity.
- d. Drain all fuel from the saddle tank.
- e. Remove the screws holding the lower, aft close-out panel on the bottom of the tank in order to get to the aft tank access panel. Remove the close-out panel.
- f. On the aft tank access panel, disconnect the optical level switch harness at the 3-pin connector.
- g. Remove 20 ea. AN3 bolts, washers, and lock washers or safety wire securing the access panel. Remove the access panel and seal.
- h. Check the fuel screen at the aft, inboard corner of the tank for damage and blockage. Remove any debris.
- i. To remove or replace the screen assembly, follow the removal and installation procedures below.
- j. Inspect the interior of the tank and remove any debris.
- k. Inspect the access panel seal for damage. Replace as necessary.



- I. Reinstall the access panel and seal with 20 ea. AN3 bolts, washers, and lock washers; or secure with safety wire.
- m. Reconnect the optical level switch harness at the 3-pin connector. Make sure the wire harness is in good condition and secure.
- n. Reinstall the close-out panel on the tank using the original screws.

FUEL SCREEN REMOVAL AND INSTALLATION

- a. Should the fuel screen need to be removed for further inspection or to be replaced, follow instructions under SADDLE TANK REMOVAL to first remove the saddle tank from the wing. The fuel screen is replaced from the bottom of the tank.
- b. Unscrew the fuel screen assembly from the bottom of the tank.
- c. Check the screen for damage and blockage.
- d. Clean the screen per the FUEL SCREEN CLEANING procedure below.
- e. Apply EZ TURN lubricant (see materials chart) to the pipe threads on fuel screen adapter and screw it back into the tank outlet fitting.
- f. Perform a leak test per the SADDLE TANK LEAK TEST procedure on page 24. Tighten or seal the screen assembly as necessary.
- g. Reinstall the saddle tank per the SADDLE TANK INSTALLATION procedure on page 23.

FUEL SCREEN CLEANING

- a. Clean screen with mild detergent and a stainless steel wire brush.
- b. Remove dirt and sediment build-up.
- c. Rinse with clean water.
- d. Check screen for cracks in solder joints. Replace damaged screen assembly.

CHECK VALVE INSPECTION AND REPLACEMENT

This procedure applies to the check valve installed in the saddle tank supply line.

- a. Disconnect all electrical power from the airplane.
- b. Make sure the wing tank is empty
- c. Drain all fuel from the saddle tank.
- Drain fuel from the drain valve located in the aft inboard side of the wheel well.
- e. Remove the check valve from the fuel line and check for dirt or debris. Flush clean as necessary.
- f. Verify the swing valve operates freely by tilting the check valve down and up. Replace the check valve if it is damaged or does not function properly.
 - **NOTE**: The swing valve used in this check valve does not have a spring.
- g. Reinstall the check valve. Make sure the check valve is oriented horizontally with the "HINGE" label up (on top). Make sure the check valve arrow points inboard.



SADDLE TANK REMOVAL

- a. Lower flaps (full down).
- b. Disconnect all electrical power from airplane.
- c. Make sure existing wing tank is empty or below 1/8 capacity.
- d. Drain all fuel from saddle tank through sump drain.
- e. Drain fuel from drain valve located in the aft inboard side of the wheel well.
- f. Remove fairing per the FAIRING REMOVAL AND INSTALLATION procedure on page 21.
- g. Disconnect bonding straps from fairing brackets.
- h. Disconnect fuel sensor wire harness at the six pin connector.
- Disconnect vent lines (accessed through the wheel well)
- j. Disconnect fuel supply line (accessed behind the aft spar).
- k. Remove #8 screws securing the front of the tank to the aft nacelle structure.
- I. Remove five (5) AN4 bolts attaching the tank to the upper wing. Three (3) bolts are located mid wing and two (2) are located behind the aft spar.
- m. Lift tank up and off the wing.
- n. Protect vent and fuel fittings with caps and plugs.

SADDLE TANK INSTALLATION

- a. If needed, install alignment pins in two aft mounting holes. Fabricate pins from AN4 bolts like the one shown in **Figure 2** on page 24.
- b. Remove protective caps and plug from vent and fuel fittings.
- c. Carefully lower saddle tank onto wing, making sure the two alignment pins are inserted into the bolt holes on the wing without excessive force. When aligned properly, the weight of the tank should be sufficient to insert the pins into the bolt holes.
- d. Use an awl if necessary to align the mounting holes in the forward mounting bracket with the holes in the aft nacelle structure. Install with #8 screws & nuts (16 each minimum).
- e. Secure tank to wing with three (3) AN4H bolts at the mid wing location. Remove the alignment pins at the aft spar location with a flat head screw driver. Install two (2) AN4 bolts and lock tabs at this location. Torque all bolts 50 to 70 inch-pounds. Secure with safety wire. Aft two (2) bolts are secured with the lock tab.
- f. Apply EZ TURN lubricant (see materials chart) to tank fuel outlet fitting threads. Secure fuel line to tank.
- g. Apply EZ TURN lubricant (see materials chart) to tank vent fitting threads. Secure two (2) vent lines to tank.
- h. Reconnect the fuel sensor wire harness at the six pin connector. Secure connectors with wire tie(s).
- i. Reconnect bonding straps to fairing brackets (2 places per tank).
- j. Reinstall fairing per the FAIRING REMOVAL AND INSTALLATION procedure on page 21.



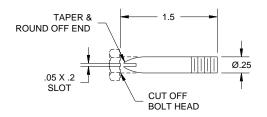


Figure 2. Alignment Pin

(not to scale)

SADDLE TANK LEAK TEST

- a. Make sure all openings are sealed or capped off.
- b. Fill tank with fuel and check for leaks.
- c. Fuel tank may also be leak tested with shop air.
 - 1. Verify tank openings are sealed or capped off except one open fitting.
 - 2. Insert a rubber hose into fitting and seal around hose.
 - 3. Use a regulator to pressurize tank to 1 2 psig (use shop air or similar).

CAUTION: Do not exceed 5 psig air pressure inside the tank.

4. Spray mild soapy water solution along seams, rivet heads, and around any recently replaced components and check for bubbles.

NOTE: Air leaks at the fuel cap are normal.

5. Remove pressure source and allow tank to depressurize.

WARNING

Opening the fuel cap or another fitting with the tank pressurized could result in serious injury.

d. Repair and or reseal any leaks found. Retest as needed.

SADDLE TANK LEAK REPAIR

For leak checks and repairs to the auxiliary fuel saddle tank, follow the procedures in the section on wet wing fuel cell repairs in Chapter 28 of the Beechcraft AMM. If the leak cannot be repaired using the specified procedures, contact CenTex Aerospace for further instructions.

NOTE: For repairing a leak in the saddle tank, any of the sealants and solvent materials recommended for wet wing fuel cell repairs in the Beechcraft AMM may be used. However, CenTex recommends using PR-1422 Class A or Class B sealant per CTA Process Specification 26005-8002 to seal the tank interior. See **Saddle Tank Materials** on the next page for information.

PAGE 24
MANUAL No. 26005-30 CHAPTER 28 Rev. 2, Jan. 2021



SADDLE TANK MATERIALS

ITEM	MATERIAL	PRODUCT	SUPPLIER
1	Thread lubricant	EZ TURN Lubricant (a.k.a. "fuel lube"; meets AMS-G-6032)	United Erie 1432 Chestnut St Erie, PA 16502 www.unitederie.com
2	Sealant	PR-1422 Class A (meets AMS-S-8802)	PPG Aerospace (PRC- Desoto) 12780 San Fernando Rd
		PR-1422 Class B (meets AMS-S-8802)	Sylmar, CA 91342 www.ppgaerospace.com
		PR-1428 Class B (meets AMS 3284)	



SADDLE TANK FUEL INDICATING SYSTEM – DESCRIPTION AND OPERATION

The saddle tank fuel level indication system consists of five optical level switches installed in each fuel tank connected to a fuel level indicator panel mounted aft of the fuel management panel on the pilot's side wall. The optical switches use infra-red light to determine whether the sensor is submerged in fuel or exposed to air. The fuel level indicator has a left and right column of green LEDs that are labeled by the quantity of fuel corresponding to the level of the switch in the tank. Refer to the *FUEL LEVEL INDICATING SYSTEM FUNCTIONAL TEST* section below for the fuel level markings according to each size of saddle tank. When fuel is at or above the indicated level, the LED illuminates green. As fuel drops below each level sensor, the LED extinguishes with the exception of the last LED. The bottom LED is a bi-color LED that stays green when the switch is submerged in fuel then changes to amber when the tank is empty.

SADDLE TANK FUEL INDICATING SYSTEM – TROUBLESHOOTING

If the fuel level indicator is not working properly, consult **Chart 2** below for possible problem indicators, causes and solutions

Chart 2. Troubleshooting Fuel Level Indicating System

Indication	Possible Cause	Remarks	
Fuel level indicator LEDs not illuminated.	a) Aircraft power is OFF.	a) Turn on main battery power.	
	b) Existing fuel indicator circuit breaker is OFF.	b) Depress circuit breaker.	
	c) Blown fuse in fuel level indicator assembly.	c) Replace fuse or repair indicator assembly.	
Individual LED(s) not illuminated.	a) Fuel level in tank is below fuel level switch.	a) Condition is normal.	
	b) Faulty LED.	b) Replace indicator assembly.	
	c) Faulty fuel level switch (sensor).	c) Replace sensor.	
"0" quantity LED is amber with fuel in saddle tank.	Faulty fuel level switch (sensor).	Replace sensor.	

SADDLE TANK FUEL INDICATING SYSTEM - MAINTENANCE PRACTICES

FUEL LEVEL INDICATING SYSTEM FUNCTIONAL TEST

Since the fuel level indicator and optical switches are activated every time the ship's power is turned on, a functional test is made every time the fuel tank is filled. To determine if the switches are functioning properly, observe the fuel level indicator when the tank is empty or is being filled. **Figure 3** on the next page shows the LEDs illuminated at different fuel levels.



When a fuel tank is empty, only the bottom or "0" gallon LED is illuminated. The LED is amber in color. As the fuel tank is filled, the "0" gallon LED changes from amber to green. Each next higher LED will illuminate green as the fuel level submerges the corresponding level switch. If any LED remains off when the fuel level is above the corresponding switch sensor, there is a malfunctioning switch or LED. For the "0" gallon LED, if the color does not change from green to amber when the fuel tank is empty, the switch is faulty.

Indicator	Fuel Tank Quantity (gallons)				
LED	90	75	50	20	0
90	ON				
75	ON	ON			
50	ON	ON	ON		
20	ON	ON	ON	ON	
0	ON	ON	ON	ON	ON

Figure 3. Fuel Level Indication

NOTE: Before performing the functional test, fill the wing and nacelle tank.

NOTE: When performing the functional test, the fuel quantity required to illuminate the indicator LED depends on the orientation of the airplane. To check the accuracy of the fuel level indication, the functional test must be done with the airplane level. See Beechcraft AMM for procedures to level the airplane.

FUEL LEVEL INDICATOR REMOVAL AND INSTALLATION

To replace the fuel level indicator, follow the procedure below.

- a. Disconnect all electrical power from the airplane.
- b. Remove the pilot's side panel per Beechcraft AMM procedures sufficiently to access the area behind the fuel level indicator.
- c. Remove the screws attaching the fuel level indicator to the bracket.
- d. Disconnect the fuel level indicator wire harness.
- e. Install the fuel level indicator in the reverse order.
- f. Turn on aircraft power to verify the fuel level indicator illuminates. Perform the functional test as needed.

OPTICAL LEVEL SWITCH REMOVAL - FRONT BULKHEAD (3 PLCS)

These switches are mounted in the forward bulkhead of the tank as shown in Figure 4 on page 30.

- a. Disconnect all electrical power from the airplane.
- b. Make sure existing wing tank is empty or below 1/8 capacity.
- c. Drain all fuel from the saddle tank.
- d. Remove fairing per the FAIRING REMOVAL AND INSTALLATION procedure on page 21.
- e. Disconnect the optical level switch harness at the 3-pin connector.
- f. Remove the fuel filler cap.



- g. Remove the filler neck adapter assembly. Remove the 12 screws and carefully separate the filler neck adapter, which is sealed with PRC, from the tank.
- h. Through the filler hole, loosen the 12mm hex nut from the switch.
- i. Carefully loosen and remove the switch. The switch is sealed with PRC.

OPTICAL LEVEL SWITCH REMOVAL - AFT BULKHEAD (2 PLCS)

These switches are mounted in the aft bulkhead of the tank as shown in Figure 4 on page 30.

- a. Lower wing flaps (full down).
- b. Disconnect all electrical power from the airplane.
- c. Make sure existing wing tank is empty or below 1/8 capacity.
- d. Drain all fuel from the saddle tank.
- e. Remove the screws holding the lower, aft close-out panel on the bottom of the tank in order to get to the aft end of the tank. Remove the close-out panel.
- f. On the aft tank access panel, disconnect the optical level switch at the 3-pin connector.
- g. Remove 20 ea. AN3 bolts, washers, and lock washers or safety wire securing the access panel. Remove the access panel and seal.
- h. Disconnect the upper optical level switch harness at the 3-pin connector (if necessary).
- i. Loosen the 12mm hex nut from the switch.
- j. Carefully loosen and remove the switch. The switch is sealed with PRC.

OPTICAL LEVEL SWITCH INSTALLATION

See Figure 5 on page 31 for installation details.

- a. Before installing the optical level switch, remove any old PRC sealant from the mounting hole and clean surface with acetone and a clean cloth.
- b. Apply a thin coat of PRC PR-1428 Class B sealant (see **Saddle Tank Materials** on page 25) to the mounting face of the switch and the external surface surrounding the mounting hole. Be careful not to get sealant on the glass cone of the switch. Should sealant contact the glass cone, wipe off sealant with clean cloth dipped in acetone.

NOTE: Apply sealant per CTA Process Specification 26005-8002.

- c. Insert the switch into the mounting hole with the seal between the switch and the tank surface.
- d. Secure the switch in the hole with the washer and 12 mm hex nut. Tighten the nut ½ turn beyond hand tight.

CAUTION: Do not over-tighten nut. Do not scratch glass cone.

- e. Inspect tank interior and remove any debris before installing access panels or filler neck adapter.
- f. If removed, install the filler neck adapter and fuel cap as follows:
 - 1. Remove old PRC from the mating surfaces and clean surfaces with acetone and clean cloth.
 - 2. Apply PR-1428 Class B sealant (see **Saddle Tank Materials** on page 25) to the adapter flange per CTA Process Specification 26005-8002.
 - 3. Install the adapter inside the tank using the original twelve (12) #10 countersunk screws.



- 4. Install the fuel cap.
- g. If removed, install the aft tank access panel as follows:
 - 1. Inspect the access panel seal for damage or brittleness. Replace as necessary.
 - 2. Reinstall the access panel and seal with 20 ea. AN3 bolts, washers, and lock washers; or secure with safety wire.
- h. Perform a leak test per the SADDLE TANK LEAK TEST procedure on page 24.
- i. Reconnect the optical level switch harness at the 3-pin connector. Make sure the wire harness is in good condition and secure.
- j. Check the indicating system per the *FUEL LEVEL INDICATING SYSTEM FUNCTIONAL TEST* procedure on page 26.
- k. If removed, reinstall the close-out panel on the tank using the original screws.
- I. If removed reinstall fairing per the FAIRING REMOVAL AND INSTALLATION procedure on page 21.



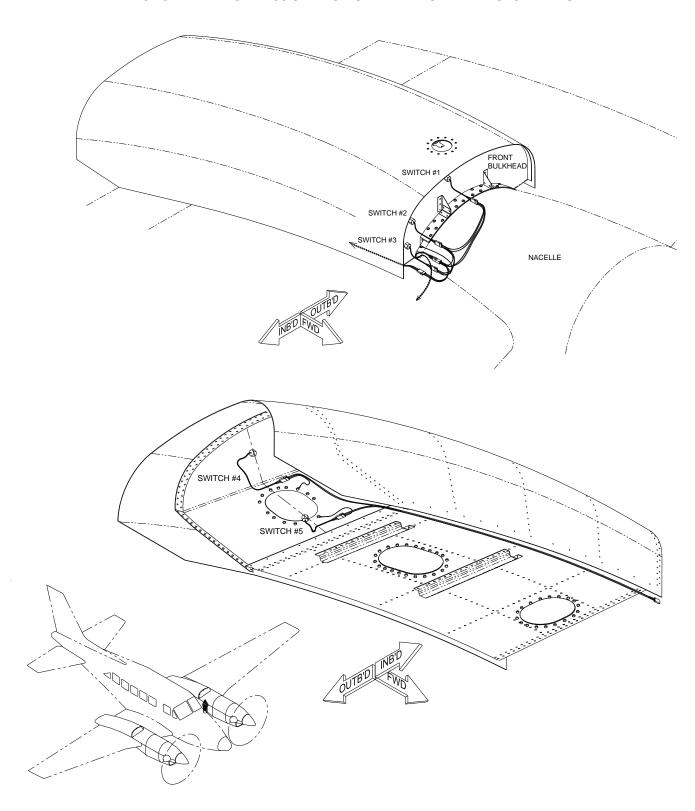


Figure 4. Saddle Tank Optical Level Switch Locations

PAGE 30 MANUAL No. 26005-30 CHAPTER 28 Rev. 2, Jan. 2021



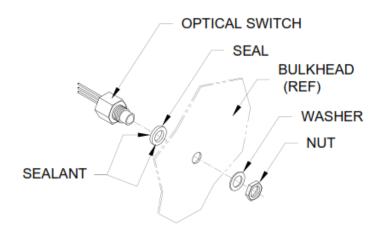


Figure 5. Optical Level Switch Installation



<u>APPENDIX A</u>

BEECHCRAFT KING AIR 90 SERIES AUXILIARY FUEL TANKS

ILLUSTRATED PARTS CATALOG





ILLUSTRATED PARTS CATALOG

SCOPE

This section provides an illustrated list of the equipment installed under STC SA11142SC for 65-A90-1 & 65-A90-4 series aircraft. The information contained herein should be used as reference only to help with ordering replacement parts when necessary. The STC drawings contain the FAA approved data and may supersede the information in the parts lists until this section is updated to reflect the latest drawings.

FORMAT

This Illustrated Parts Catalog (IPC) is broken down into systems, installations, assemblies & detail parts. The example below shows the basic format. The following terms used in the parts lists are defined below.

ITEM – the item number in the parts list corresponds to the item number in the illustration.

PART NUMBER – lists the part number of the item. The number can be a CTA part number, a vendor number, or a mil-spec number.

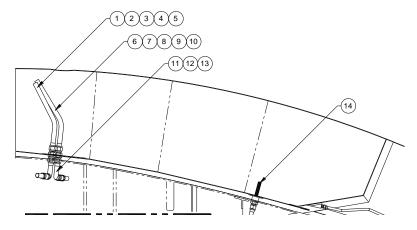
NOMENCLATURE – name of the part and if it is a detail part, an assembly or installation.

EFFECTIVITY – if listed, the serial numbers of the aircraft eligible for the specific part installation. If the parts are eligible for installation on all serial number King Air 90s, the column is left blank.

UNITS/ASSY – quantity of the parts used in each system installation per aircraft.

EXAMPLE

The example shows how parts are illustrated and listed by installation, assembly, etc.



ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-4000-1	INSTALLATION, FUEL SYSTEM, LH		1
	26005-4000-2	INSTALLATION, FUEL SYSTEM, RH		1
1	26005-4002-3	. TUBE ASSEMBLY		1
		ATTACHING PARTS		
2	AN832-12D	BULKHEAD UNION		1
3	AN960-1716	WASHER		1
4	AN924-12D	NUT		1





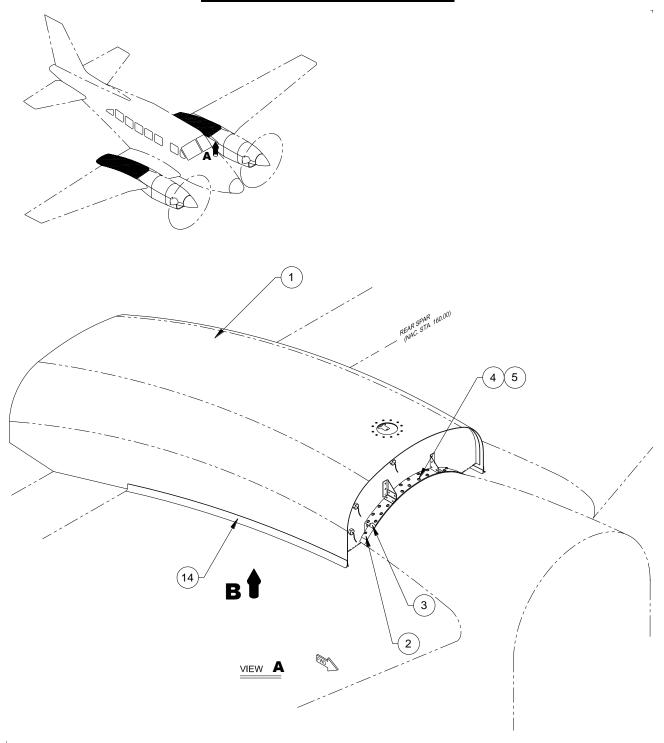
ILLUSTRATED PARTS CATALOG

26005-2000 FUEL TANKS





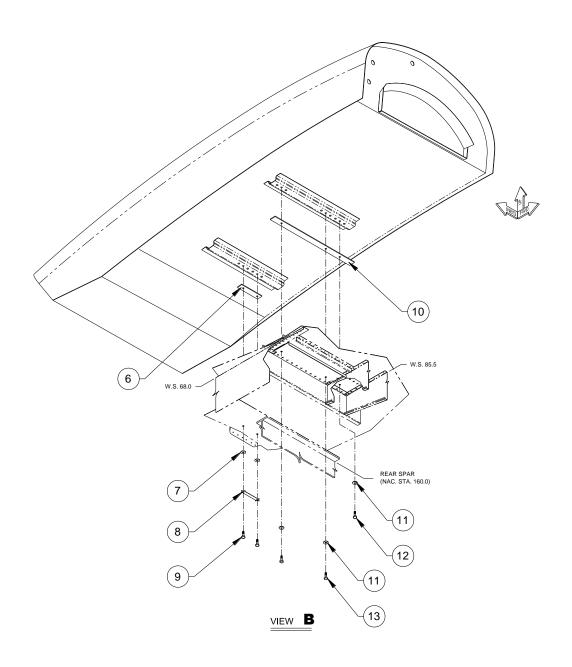
ILLUSTRATED PARTS CATALOG



26005-2000-1/-2 FUEL TANKS, SHEET 1 OF 2



ILLUSTRATED PARTS CATALOG



26005-2000-1/-2 FUEL TANKS, SHEET 2 OF 2



ILLUSTRATED PARTS CATALOG

ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-2000-1	INSTALLATION, FUEL TANK,LH		1
	26005-2000-2	INSTALLATION, FUEL TANK, RH		1
1	26005-2001-1	. FUEL TANK ASSEMBLY, LH		1
	26005-2001-2	. FUEL TANK ASSEMBLY, RH		1
		ATTACHING PARTS		
2	26005-2008-8	SHIM		1
	AN526-632R6	SCREW		2
	AN960-6	WASHER		2
	AN365-632	NUT		2
3	26005-2011-13	CHAFING STRIP		1
4	AN525-832R8	SCREW		16
	AN960-8	WASHER (OPTIONAL)		16
5	AN365-832	NUT		16
	130007	CLIP NUT (ALTERNATE)		A/R
		*		
6	26005-2011-11	. CHAFING STRIP		1
7	AN970-4	. WASHER		2
8	26005-	. LOCK TAB		1
9	AN4H-10A	. BOLT		2
10	26005-2011-12	. CHAFING STRIP		4
11	AN970-4	. WASHER		3
12	AN4H-10A	. BOLT		1
13	AN4H-12A	. BOLT		2
14	WR-8988	. SEAL		A/R





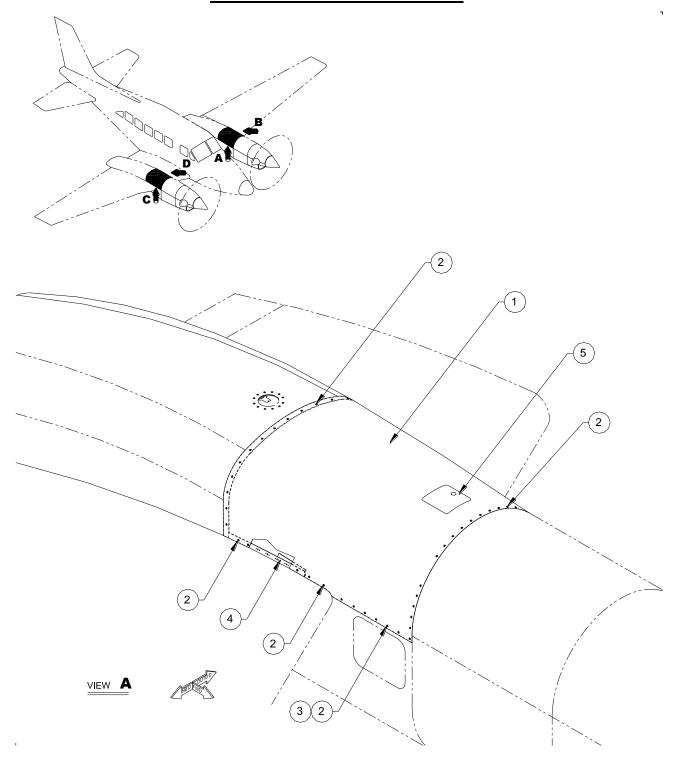
ILLUSTRATED PARTS CATALOG

26005-3000 FUEL TANK FAIRING





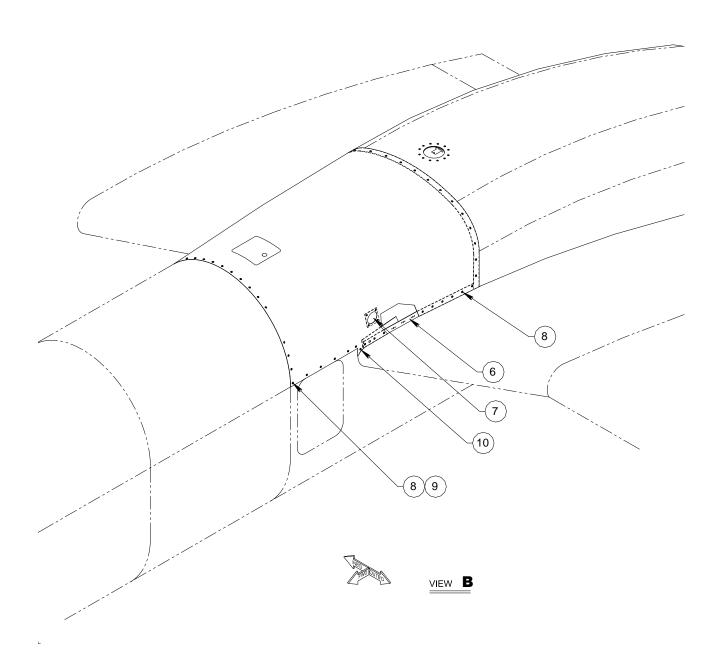
ILLUSTRATED PARTS CATALOG



26005-3000-1/-2 FUEL TANK FAIRING, SHEET 1 OF 4



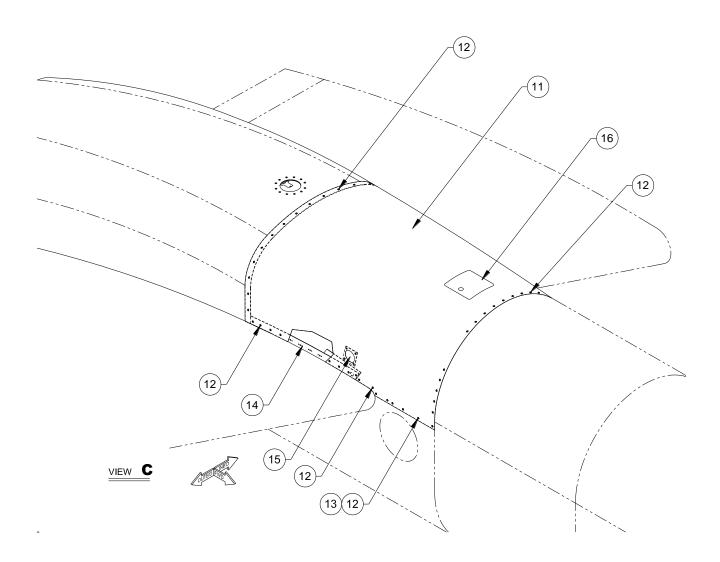
ILLUSTRATED PARTS CATALOG



26005-3000-1/-2 FUEL TANK FAIRING, SHEET 2 OF 4



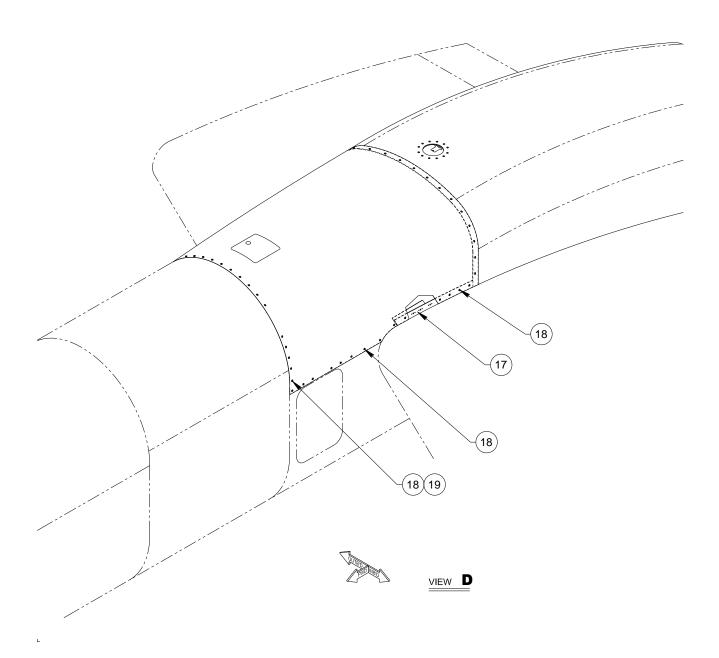
ILLUSTRATED PARTS CATALOG



26005-3000-1/-2 FUEL TANK FAIRING, SHEET 3 OF 4



ILLUSTRATED PARTS CATALOG



26005-3000-1/-2 FUEL TANK FAIRING, SHEET 4 OF 4



ILLUSTRATED PARTS CATALOG

ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-3000-1	INSTALLATION, FUEL TANK FAIRING, LH		1
	26005-3000-2	INSTALLATION, FUEL TANK FAIRING, RH		1
1	26005-3005-1	. FAIRING, LH		1
		ATTACHING PARTS		
2	AN525-832R8	SCREW		53
	AN960-8	WASHER		11
3	MS21044N08	NUT		11
		*		
4	26005-3002-1	. BRACKET ASSEMBLY, LH INB'D ATTACHING PARTS		1
	MS27039-1-08	SCREW		3
	MS27039-08-08	SCREW		1
		*		
5	26005-3004-2	. ACCESS DOOR		1
6	26005-3002-2	. BRACKET ASSEMBLY, LH OUTB'D ATTACHING PARTS		1
	MS27039-1-08	SCREW		5
	MS27039-08-08	SCREW		1
		*		
7	26005-3003-1	. LENS		1
		ATTACHING PARTS		
	AN526-632R6	SCREW		4
	MS21044N06	NUT		4
		*		
8	AN525-832R8	. SCREW		21
9	MS21044N08	. NUT		9
	AN960-8	. WASHER		9
10	AN525-10R8	. SCREW		1
11	26005-3005-2	. FAIRING, RH ATTACHING PARTS		1
12	AN525-832R8	SCREW		51
	AN960-8	WASHER		10
13	MS21044N08	NUT		10
		*		
14	26005-3002-4	. BRACKET ASSEMBLY, RH OUTB'D ATTACHING PARTS		1
	MS27039-1-08	SCREW		5
	MS27039-08-08	SCREW		1
		*		

MANUAL No. 26005-30



ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
15	26005-3003-1	. LENS		1
10	20000 0000 1	ATTACHING PARTS		'
	AN526-632R6	SCREW		4
	MS21044N06	NUT		4
	1VI321044INU0	NO1		4
40	00005 0004 0			4
16	26005-3004-2	. ACCESS DOOR		1
17	26005-3002-3	. BRACKET ASSEMBLY, RH INB'D		1
		ATTACHING PARTS		
	MS27039-1-08	SCREW		3
	MS27039-08-08	SCREW		1
		*		
18	AN525-832R8	. SCREW		23
	AN960-8	. WASHER		12
19	MS21044N08	. NUT		12



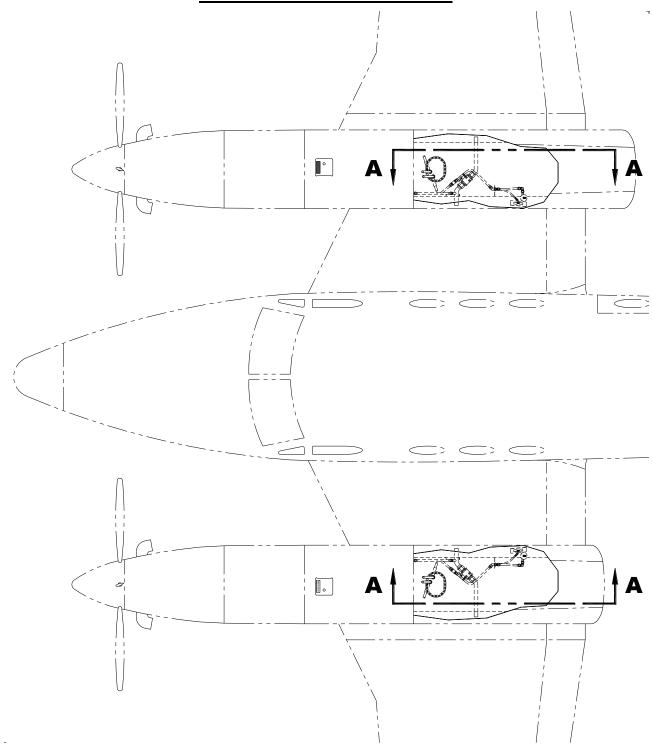
ILLUSTRATED PARTS CATALOG

26005-4000 FUEL SYSTEM





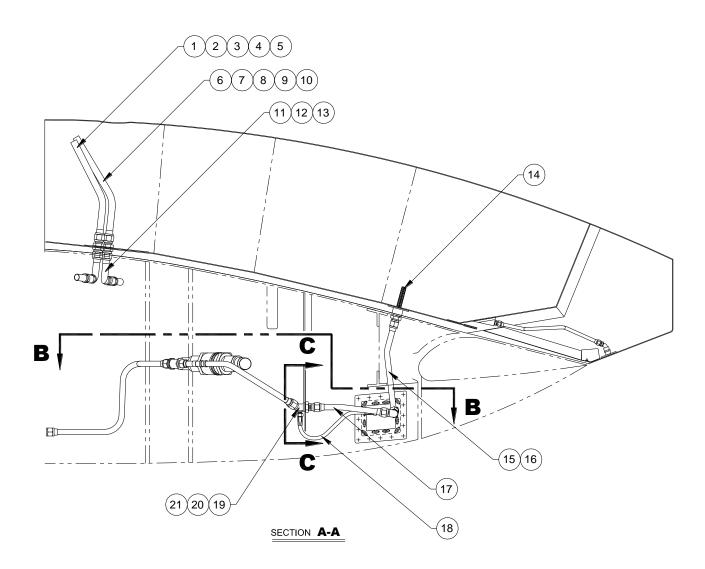
ILLUSTRATED PARTS CATALOG



26005-4000-1/-2 FUEL SYSTEM, SHEET 1 OF 3



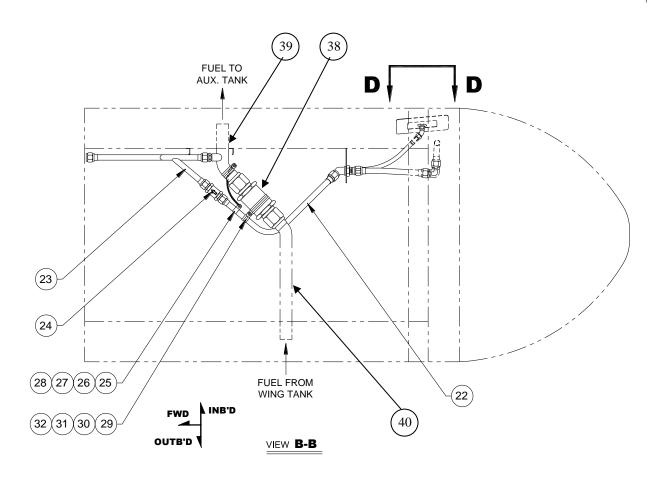
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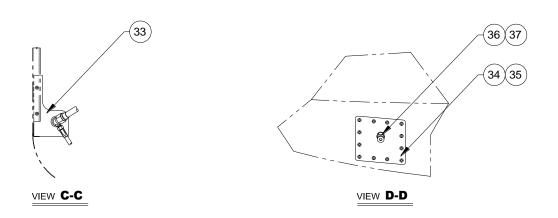


26005-4000-1/-2 FUEL SYSTEM, SHEET 2 OF 3



ILLUSTRATED PARTS CATALOG





26005-4000-1/-2 FUEL SYSTEM, SHEET 3 OF 3





ILLUSTRATED PARTS CATALOG

ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-4000-1	INSTALLATION, FUEL SYSTEM, LH		1
	26005-4000-2	INSTALLATION, FUEL SYSTEM, RH		1
1	26005-4002-3	. TUBE ASSEMBLY		1
		ATTACHING PARTS		
2	AN832-12D	BULKHEAD UNION		1
3	AN960-1716	WASHER		1
4	MS92513-119	O-RING		1
5	AN924-12D	NUT		1
		*		
6	26005-4002-4	. TUBE ASSEMBLY		1
		ATTACHING PARTS		
7	AN832-12D	BULKHEAD UNION		1
8	AN960-1716	WASHER		1
9	MS92513-119	O-RING		1
10	AN924-12D	NUT		1
		*		
11	26005-4003-1	. TUBE ASSEMBLY		2
		ATTACHING PARTS		
12	2231-12	HOSE		2
13	200-16H	CLAMP		4
		*		
14	26005-4005-1	. SCREEN ASSEMBLY		1
15	26005-4008-1	. TUBE ASSEMBLY		1
16	AN821-10D	. ELBOW		1
17	26005-4007-1	. TUBE ASSEMBLY		1
18	130001-4S-0152	. HOSE ASSEMBLY		1
19	26005-4001-1	. FITTING ASSEMBLY, LH		1
	26005-4001-2	. FITTING ASSEMBLY, RH		1
		ATTACHING PARTS		
20	AN960-816L	WASHER		1
21	AN924-10D	NUT		1
		*		
22	26005-4010-1	. TUBE ASSEMBLY		1
23	26005-4006-1	. TUBE ASSEMBLY, LH		1
	26005-4006-2	. TUBE ASSEMBLY, RH		1
24	26005-4012-1	. CHECK VALVE		1
25	AN724D10	. CLAMP		1
26	MS25083-1BB6	. JUMPER ASSEMBLY		1
27	MS27039-1-09	. SCREW		2
28	AN363-1032	. NUT		2



ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
29	MS21919DG10	. CLAMP		1
30	MS21919DG44	. CLAMP		1
31	MS27039-1-09	. SCREW		1
32	AN363-1032	. NUT		1
33	26005-4004-4	. BRACKET		1
		ATTACHING PARTS		
	MS27039-1-09	SCREW (EXISTING)		2
	AN363-1032	NUT (EXISTING)		2
		*		
34	26005-4004-1	. ACCESS PANEL ASSEMBLY		1
		ATTACHING PARTS		
35	MS24693S50	SCREW		12
		*		
36	CAV-110	. FUEL DRAIN VALVE		1
37	MS20823-4D	. ELBOW		1
		*		
38	26005-4015-1	. CHECK VALVE	Α	1
39	26005-4016-1	. TUBE ASSEMBLY, INB'D.	Α	1
40	26005-4016-2	. TUBE ASSEMBLY, OUTB'D.	Α	1

EFFECTIVITY CODE:

A: 65-A90, B90, C90, C90A, C90GT, C90GTi



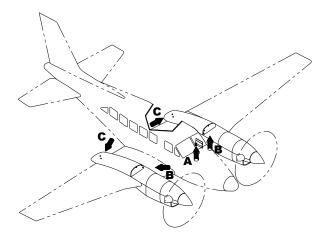
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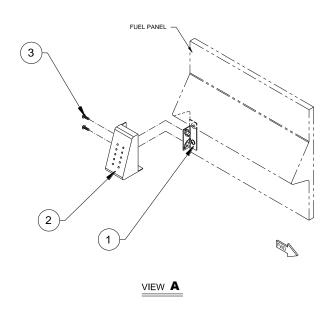
26005-6000 FUEL LEVEL INDICATION





ILLUSTRATED PARTS CATALOG

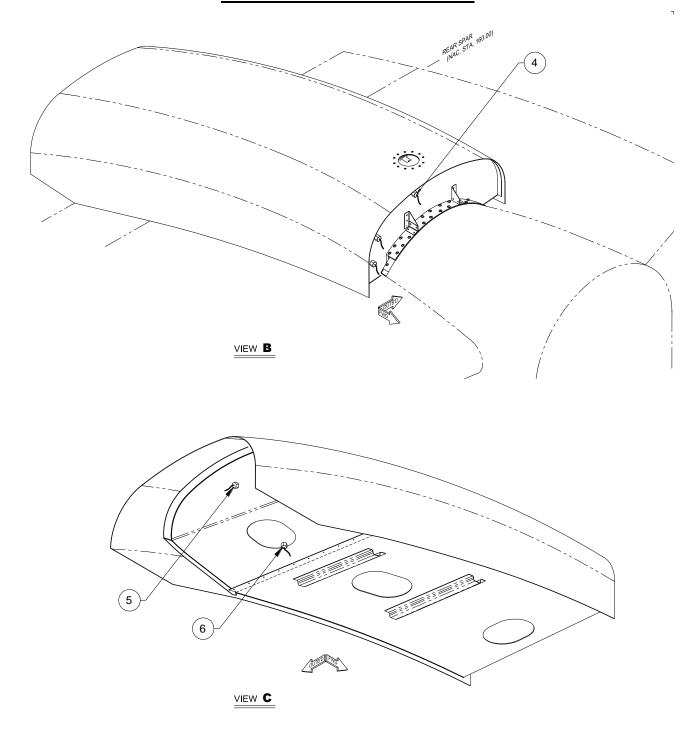




26005-6000-1 FUEL LEVEL INDICATION



ILLUSTRATED PARTS CATALOG



26005-6000-1 FUEL LEVEL INDICATION



ILLUSTRATED PARTS CATALOG

ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-6000-1	INSTALLATION, FUEL LEVEL INDICATION		1
1	26005-6004-1	. ANGLE ASSEMBLY ATTACHING PARTS		1
	MS24639S27	SCREW (EXISTING)		1
	AN526-632R6	SCREW (EXISTING)		1
2	26005-6001-1	. ASSEMBLY ATTACHING PARTS		1
3	AN526-632R6	SCREW		2
4	OPT4922-1	. OPTICAL LEVEL SWITCH, NO		6
	LLT210D324-003	. OPTICAL LEVEL SWITCH, NO (ALT.)		6
	LLPK1	. NUT & SEAL WASHER (ALT.)		6
_	AN960-816L	. WASHER		6
5	OPT4922-1	OPTICAL LEVEL SWITCH, NO		2 2
	LLT210D324-003 LLPK1	. OPTICAL LEVEL SWITCH, NO (ALT.) . NUT & SEAL WASHER (ALT.)		2
	AN960-816L	. WASHER		2
6	OPT4922-2	. OPTICAL LEVEL SWITCH, NC		2
	LLT210D3L24-003	. OPTICAL LEVEL SWITCH, NC (ALT.)		2
	LLPK1	. NUT & SEAL WASHER (ALT.)		2
	AN960-816L	. WASHER		2





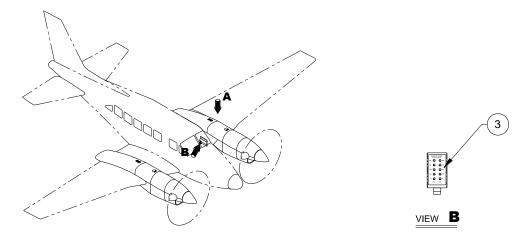
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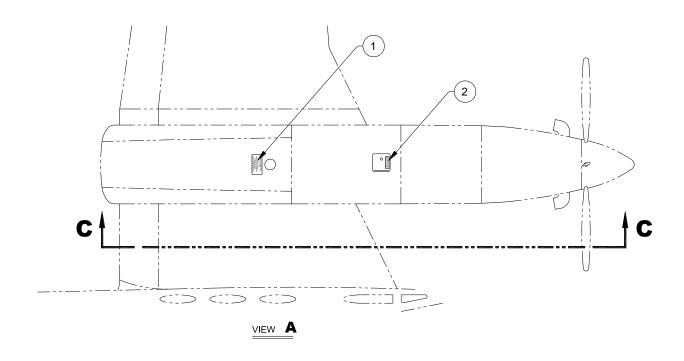
26005-7000 PLACARDS





ILLUSTRATED PARTS CATALOG

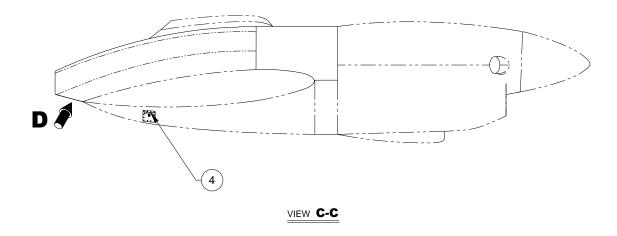


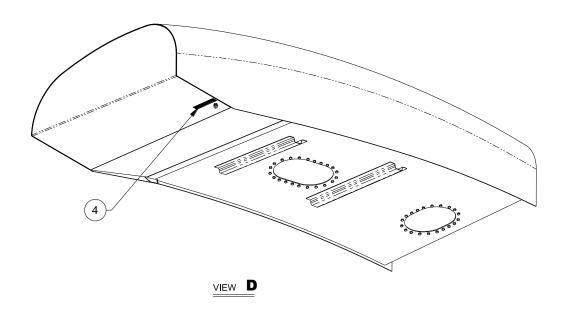


26005-7000-1 PLACARDS, SHEET 1 OF 2



ILLUSTRATED PARTS CATALOG





26005-7000-1 PLACARDS, SHEET 2 OF 2



ILLUSTRATED PARTS CATALOG

ITEM	PART NUMBER	NOMENCLATURE 123	EFFECTIVITY	UNITS/ ASSY
	26005-7000-1	INSTALLATION, PLACARDS		1
1 2	26005-7001-1 26005-7001-2	. PLACARD, "SADDLE TANK FUEL" . PLACARD, "NACELLE TANK FILLER"		2 2
3	26005-7001-3	. PLACARD, "SADDLE TANKS QTY"		1
4	26005-7001-4	. PLACARD, "FUEL DRAIN"		2



APPENDIX B

BEECHCRAFT KING AIR 90 SERIES AUXILIARY FUEL TANKS

WIRING DIAGRAM MANUAL





WIRING DIAGRAM MANUAL

SCOPE

This section provides wiring diagrams and lists of electrical components for the equipment installed under STC SA11142SC for Beechcraft King Air 90 series aircraft. The information contained herein should be used as reference only to help with ordering replacement parts when necessary. The STC drawings contain the FAA approved data and may supersede the information in this section until it can be updated to reflect the latest drawings.

FORMAT

The Wiring Diagram Manual is broken down into systems & components. The example below shows the basic format. The following terms used in the parts lists are defined below.

ITEM – the item number in the parts list corresponds to the item number in the diagram.

PART NUMBER – lists the part number of the item. The number can be a CTA part number, a vendor number, or a mil-spec number.

NOMENCLATURE – name of the part.

EFFECTIVITY – if listed, the serial numbers of the aircraft eligible for the specific part installation. If the parts are eligible for installation on all serial number airplanes, the column is left blank.

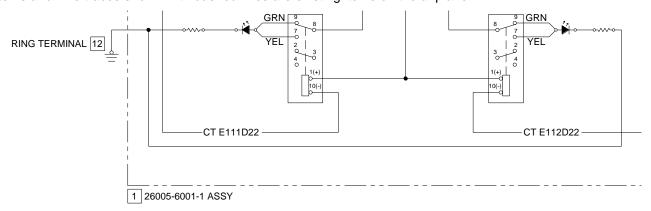
UNITS/ASSY – quantity of the parts used in each system installation per aircraft.

EXAMPLE

The example shows a basic wiring diagram and list of components. The wiring diagram uses conventional formats and symbols for various electrical components, ground points, etc.

Each wire has a wire code number. Each wire is physically labeled with this code.

Items and wire traces shown with dashed lines are existing items on the airplane.



ITEM	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS/ ASSY
1	26005-6001-1	ASSEMBLY		1
2	OPT4299-1	OPTICAL SWITCH, NO		8



WIRING DIAGRAM MANUAL

CONNECTION TO AIRPLANE ELECTRICAL SYSTEMS

Where connections to existing airplane electrical systems are noted, refer to the Beechcraft King Air 90 Series Wiring Diagram Manual by airplane serial number in order to see the applicable wiring diagrams for existing equipment.

WIRE TYPE

Use 22-gauge M227759/16 wire for repairing or replacing worn or damaged wire.

WIRE & ELECTRICAL COMPONENT REPLACEMENT

For inspection, repair, or replacement of wire and electrical components, follow the accepted procedures and practices specified in FAA Advisory Circular AC 43.13-1B/2B for aircraft electrical systems.

Be sure to label any replacement wire with the correct wire number shown on the wiring diagram.



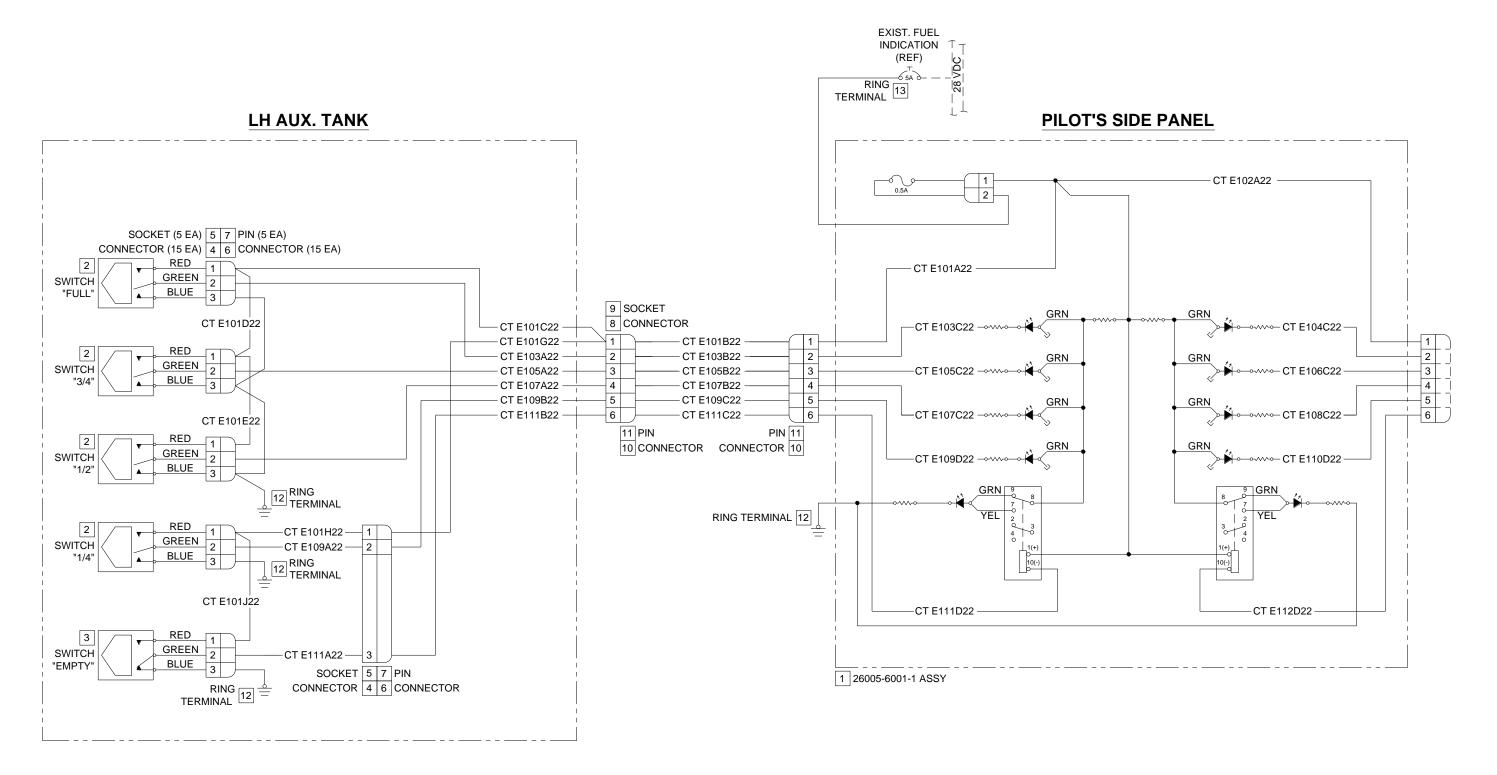
WIRING DIAGRAM MANUAL

26005-5001 FUEL LEVEL INDICATION





WIRING DIAGRAM MANUAL



26005-5001-1 FUEL LEVEL INDICATION, LH

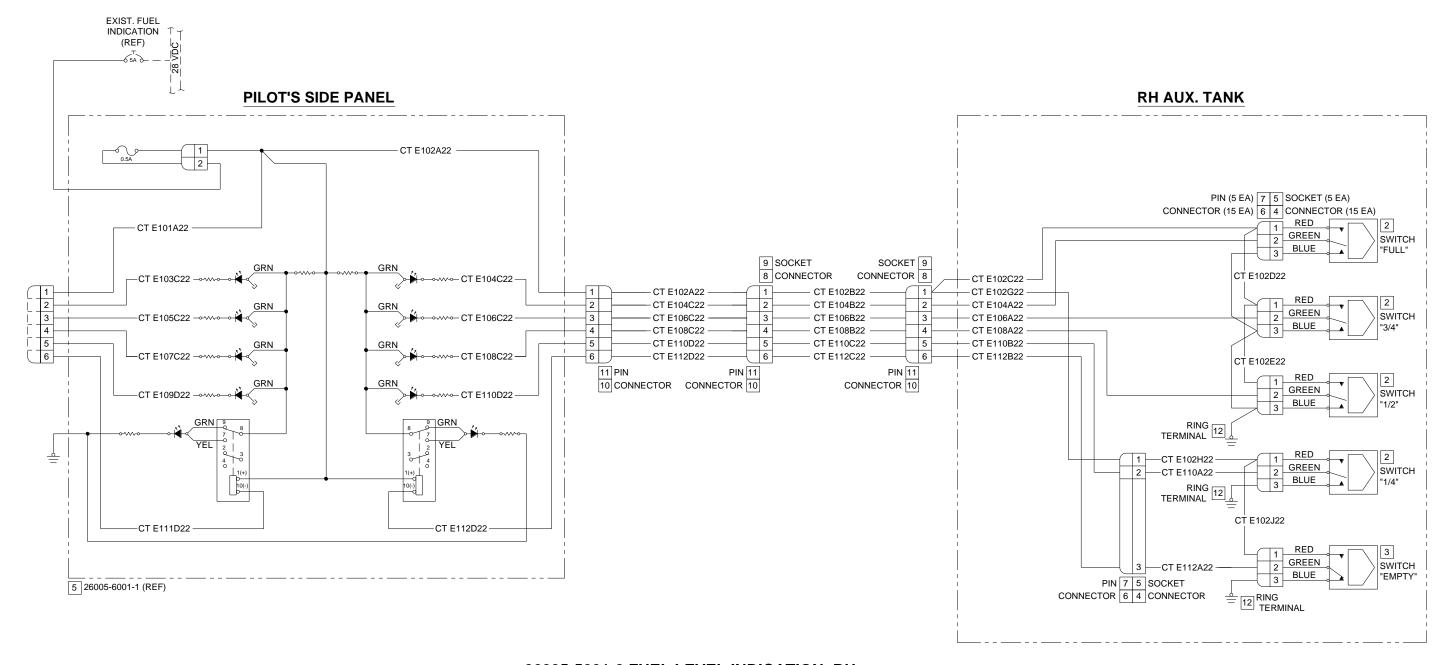
PAGE B7 Rev. 1, 09/01/14

MANUAL No. 26005-30 APPENDIX B





WIRING DIAGRAM MANUAL



26005-5001-2 FUEL LEVEL INDICATION, RH

PAGE B9 Rev. 1, 09/01/14



WIRING DIAGRAM MANUAL

ITEM	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS/ ASSY
	26005-5001-1	WIRING DIAGRAM, FUEL LEVEL INDICATION, LH		1
	26005-5001-1	WIRING DIAGRAM, FUEL LEVEL INDICATION, RH		1
1	26005-6001-1	ASSEMBLY		1
2	OPT4299-1	OPTICAL SWITCH, NO		8
	LLT210D324-003	OPTICAL SWITCH, NO (ALTERNATE)		8
3	OPT4299-2	OPTICAL SWITCH, NC		2
	LLT210D3L24-003	OPTICAL SWITCH, NC (ALTERNATE)		2
4	1-480303-0	RECEPTACLE, SOCKET		12
5	60617-1	SOCKET		36
6	1-480305-0	RECEPTACLE, PIN		12
7	60618-1	PIN		36
8	39-09-1061	RECEPTACLE, SOCKET		3
9	02-09-1119	SOCKET		18
10	03-09-2061	RECEPTACLE, PIN		5
11	02-09-2118	PIN		30
12	31890	RING TERMINAL		7
13	36512	RING TERMINAL		1

