

## Model Communiqué

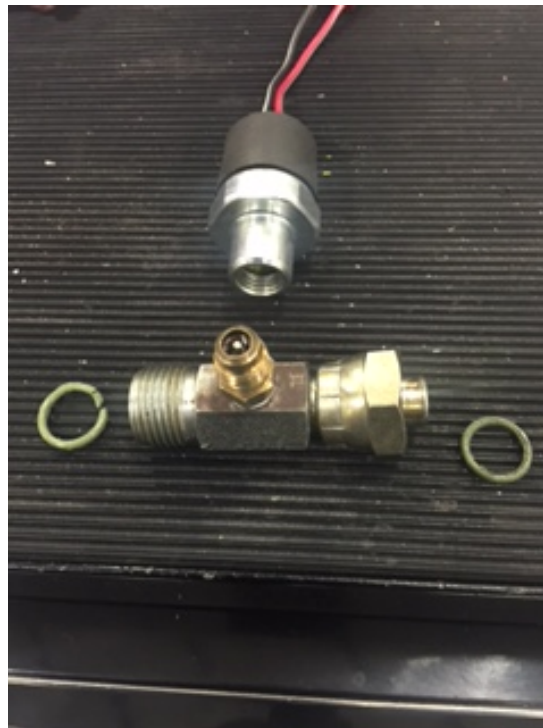
### *King Air Series*

Communiqué # 2016-06  
June 2016

**ATA 21 - Binary Switch Replacement - Air Conditioning Environmental System**  
**BB-1978, BB-1988 and after; BL-152 and after; BY-1 and after; BZ-1 and after; FL-493, FL-500 and after; FM-14 and after**

The air conditioner portion of the Air Comm Corporation (formerly Keith Products) system no longer uses individual switches for underpressure and overpressure conditions. These switches have been replaced with a single binary switch that will interrupt power to the compressor clutch when the system pressure is below 30 to 35 psi or above 350 psi. When the pressures stabilize, the switch will reset itself.

If the binary switch needs to be removed, the air conditioner system does not need to be discharged. The fitting that the pressure switch is connected to has a Schrader valve. Unscrewing the switch from the fitting allows the technician to bench test or replace it. In the event that the valve is replaced, the part number of the two "O" rings (preformed packing) is ES49011-2. Replacement of the valve will require the system to be evacuated.



## **ATA 21 - Air Conditioning System Plumbing Seals and Torque Values**

**BB-1978, BB-1988 and after; BL-152 and after; BY-1 and after; BZ-1 and after; FL-493, FL-500 and after; FM-14 and after**

The Air Comm Corporation (formerly Keith Products) air conditioning system uses a number of seals throughout the plumbing. Replacement of the "O" ring seals is sometimes needed to stop a leak or when replacing plumbing or components. The part number of the "O" ring seals and torque values are listed below:

### **Recommended Fitting Torque Specifications**

Caution: Torque values are for dry threads. It is recommended that torque is applied on the low side value to prevent fitting twisting.

Thread Size	Ft-Lbs	N-m
5/8 - 18	10-15	14-20
3/4 - 16	15-20	20-27
7/8 - 14	20-30	27-40
1 1/16 - 14	25-35	34-47

### **O-ring Replacement**

1. Place appropriate sized "O" ring over the tube end of the fitting.
2. Lubricate the "O" ring with Polyolester oil viscosity ISO 68 prior to assembly.
3. Apply sealant P/N ES49000-1 to all fitting mating surfaces prior to assembly. Do not apply sealant to the fitting threads. "O" ring part numbers follow:

O-ring P/N	Fitting Size	O-ring Tube
ES49011-1	6	3/8"
ES49011-2	8	1/2"
ES49011-3	10	5/8"
ES49011-4	12	3/4"
ES49011-5	N/A	1/4"

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