



**Power Systems**

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# Service Bulletin

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## B-SERIES AIRCRAFT HEATERS SUPERCEDURE DATA FOR CURRENT HEATER CONFIGURATION

**PREFACE:** Aircraft installations using JANITROL B-SERIES HEATERS have undergone certain product improvements that are available to users in order to upgrade the performance of their Combustion Heaters. This Service Letter is to advise users of those improvements and recommend upgrade of their particular Heater at the next required Major Overhaul. The purpose of this Letter is to reduce field problems with older technology Heaters through supercedure to later, improved designs.

1. The attached chart shows the supercedure data by aircraft installation and JANITROL HEATER MODEL for that installation. The chart is annotated with an asterisk (\*) indicating the current production model of a given Heater. Also noted is the major change element between models showing the continual upgrade of that model.
2. It is recommended that users upgrade their Heaters to the current production model at the next required major overhaul (see following paragraph regarding FAA AD-NOTE #96-20-07 and required overhaul period). For example, the PA31T/T1 CHEYENNE original installation used a 62D33 JANITROL HEATER and subsequent upgrades involving joint effort between PIPER and JANITROL engineering have resulted in the 10E21-4EL as the latest version incorporating an improved ignition system, sparkplug, fuel feed, and combustion tube.
3. FAA AD-NOTE #96-20-07 on these same B-Series Heaters requires periodic inspections to assure the integrity and airworthiness of the Combustion Tube in each Heater. Heaters failing a pressure decay test at these periodic inspection intervals require a major overhaul including replacement of the Combustion Tube (generally referred to as a MAJOR overhaul). The inspection interval then reverts back to the initial 500 hour period or the same as a new Heater. It is at this point of major overhaul that upgrade of the Heater to current production specifications is recommended.
4. Users will find that problems are reduced; spare parts, service, and future upgrades will be more available to continue trouble free flying.
5. Actual installation authority is determined by the airframe manufacturer and installers should refer to the manufacturer's current publications or obtain FAA Field Approval for change in original equipment. The new models (EL Series) are form, fit, and function interchangeable with the original models; there are no installation differences.

**REVISION DATA:**

- Original - August 1995
- Revision - November 1996 - Added Models and Corrected Applicability Data
- Revision - September 1997 - Corrected Applicability Data
- Revision - February 2001 - Removed reference to FAA Form 337
- Revision - March 21, 2003 - Deleted number 4, and renumbered accordingly
- Revision - December 23, 2005 - Clarified Cessna 49D79, added 42D79-1(EL), Cheyenne Fuel Inlet info.

## ***Beech:***

### **Model:**

B55, F55, 58, 58TC  
BARON ('75 &UP)

### **HEATER:**

81D94-1  
81D94-2  
81D94-3  
\* **81D94-3EL**

### **MODEL:**

B4050  
B4050  
B4050  
**B4500**

### **CHANGE:**

Original  
Overheat Switch Change  
C/A Switch Move, New Nozzle  
**Extended Life Tube**

58P  
P. BARON

82D20-1  
\* **82D20-1EL**  
82D20-2  
07E02-1  
\* **07E02-1EL**

B3040  
**B3500**  
B3040  
B3040  
**B3500**

Original  
**Extended Life Tube**  
Chg Blower & Cycling SW  
New Version - Press. 81D94  
**Extended Life Tube**

60, A60  
DUKE

A34D51  
C34D51  
\* **C34D51EL**

B3040  
B3040  
**B3500**

Original  
CTA & O'Heat SW Upgrade  
**Extended Life Tube**

76  
DUCHESS

07E94-1  
\* **07E94-1EL**  
07E94-2  
\* **07E94-2EL**

B4050  
**B4500**  
B4050  
**B4500**

Original -12VDC  
**Extended Life Tube**  
24 VDC Version -B4050  
**Extended Life Tube**

## ***Bell:***

### **Model:**

206, 206A, 206B

### **HEATER:**

37D88  
A37D88  
B37D88  
\* **B37D88EL**

### **MODEL:**

B2030  
B2030  
B2030  
**B2500**

### **CHANGE:**

Original 1966  
Auto Reset -O/T Switch  
Standard Head -1973  
**Extended Life Tube**

206L

39D90-1  
\* **39D90-1EL**

B3040  
**B3500**

Original 1974  
**Extended Life Tube**

## ***Canadair:***

### **Model:**

CL-215

### **HEATER:**

99C80  
99C80-1  
\* **99C80-2EL**

### **MODEL:**

B4050  
B4050  
**B4500**

### **CHANGE:**

Original, Calibrated Head  
CO2 Ftg., Sealing  
**Extended Life Tube**

CL-215T

91E18-1  
\* **91E18-1EL**

B4050  
**B4500**

Original  
**Extended Life Tube**

CLT-415

91E18-1  
\* **91E18-1EL**

B4050  
**B4500**

Original  
**Extended Life Tube**

(\* ) indicating the current production model of a given Heater.

## **Cessna:**

<b><u>Model:</u></b>	<b><u>HEATER:</u></b>	<b><u>MODEL:</u></b>	<b><u>CHANGE:</u></b>
208 CARAVAN	90E14-1 * <b>90E14-1EL</b>	B4050 <b>B4500</b>	Original Heater <b>Extended Life Tube</b>
303 CRUSADER	19E69-1 * <b>19E69-1EL</b>	B4050 <b>B4500</b>	Original - 1979-B4050 <b>Extended Life Tube</b>
310F-310Q	96C62 96C62-1 * <b>96C62-1EL</b>	B3040 B3040 <b>B3500</b>	Original - Calibrated Head Jacket & Switch Changes <b>CTA Chg &amp; Extended Life Tube</b>
320C-320F SKYNIIGHT	96C62 96C62-1 * <b>96C62-1EL</b>	B3040 B3040 <b>B3500</b>	Original - Calibrated Head Jacket & Switch Changes <b>CTA Chg &amp; Extended Life Tube</b>
337, T337 SKYMASTER	42D79 * <b>42D79-1(EL)</b>	B2030 <b>B2500</b>	Original - Calibrated Head <b>Std. Head, Ign. Upgrade &amp; Extended Life Tube</b>
337, T337 SKYMASTER	74D01 74D01-1 74D01-2 74D01-3 * <b>74D01-3(EL)</b>	B2030 B2030 B2030 B2030 <b>B2500</b>	CTA Upgrade CTA Change Standard Head Ignition Upgrade <b>Extended Life Tube</b>
340/340A	02E17-2 13E55-2 * <b>13E55-2(EL)</b>	B4050 B4050 <b>B4500</b>	Original - 1975 Blower & Ignition Upgrade <b>Extended Life Tube</b>
414,414A CHANCELLOR	02E17-1 13E55-1 * <b>13E55-1(EL)</b>	B4050 B4050 <b>B4500</b>	Standard Head -1975 Blower & Ignition Upgrade <b>Extended Life Tube</b>
421C (Serial #201 & up) GOLDEN EAGLE	A34D35 02E17-1 13E55-1 * <b>13E55-1(EL)</b>	B3040 B4050 B4050 <b>B4500</b>	Original - Calibrated Head Standard Head -1975 Blower & Ignition Upgrade <b>Extended Life Tube</b>

(\*) indicating the current production model of a given Heater.

## **Commander:**

<u>Model:</u>	<u>HEATER:</u>	<u>MODEL:</u>	<u>CHANGE:</u>
500S	62D95-1B	B3040	Original
	* 62D95-1BEL	B3500	Extended Life Tube

## **Piaggio:**

<u>Model:</u>	<u>HEATER:</u>	<u>MODEL:</u>	<u>CHANGE:</u>
P166DL3	88D81-1	B3040	Original
	88D81-2	B3040	Switch Change
	* 88D81-2EL	B3500	Extended Life Tube

## **Pilatus:**

<u>Model:</u>	<u>HEATER:</u>	<u>MODEL:</u>	<u>CHANGE:</u>
TRI-ISLANDER	90E00-1	B4050	Original
BRITTEN-NORMAN	* 90E00-1EL	B4500	Extended Life Tube
ISLANDER	94E11-1	B4050	Original
	* 94E11-1EL	B4500	Extended Life Tube

## **Piper:**

<u>Model:</u>	<u>HEATER:</u>	<u>MODEL:</u>	<u>CHANGE:</u>
AZTEC, 12 VDC	37D77	B3040	Original - Calibrated Head
PA-23	37D77-1	B3040	Standard Head, 1973
	* 37D77-1EL	B3500	Extended Life Tube
AZTEC, 24 VDC	45D70	B3040	Original - Calibrated Head
PA-23	45D70-1	B3040	Standard Head, 1974
	45D70-2	B3040	Auto Reset - O/T Switch
	* 45D70-2EL	B3500	Extended Life Tube
COMANCHE, TWIN	20D35	B2030	Original - Calibrated Head
PA-30	20D35-1	B2030	Standard Head, Ign. Upgrade
	* 20D35-1EL	B2500	Extended Life Tube
NAVAJO, STD	39D59	B3040	Original - Calibrated Head
PA-31	B39D59	B3040	Standard Head, 1974
	D39D59	B3040	Auto Reset - O/T Switch
	* D39D59EL	B3500	Extended Life Tube
NAVAJO, TAIL	A39D59	B3040	Original - Calibrated Head
PA-31	C39D59	B3040	Standard Head, 1975
PA-31-350	* C39D59EL	B3500	Extended Life Tube

(\*) indicating the current production model of a given Heater.

## ***Piper (Continued):***

<b><u>Model:</u></b>	<b><u>HEATER:</u></b>	<b><u>MODEL:</u></b>	<b><u>CHANGE:</u></b>
NAVAJO, PRESS. PA-31P	47D65 47D65-1	B3040 B3040	Original - Calibrated Head Standard Head, 1973, Ign. Chg.
	47D65-2 47D65-3	B3040 B3040	Obsolete; see -3 10E75 Sparkplug
	* <b>47D65-3EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
CHIEFTAIN PA-31-350 PA-31-350-T1020	65D79 65D79-1 65D79-2 65D79-3	B4050 B4050 B4050 B4050	Original - Calibrated Head Standard Head, 1973 CTA upgrade Auto Reset - O/T Switch
	* <b>65D79-3EL</b>	<b>B4500</b>	<b>Extended Life Tube</b>
CHEYENNE PA-31T/T1	62D33 62D33-1 63D33-2 10E21-1 10E21-2 10E21-3 10E21-4	B3040 B3040 B3040 B3040 B3040 B3040 B3040	Original - Fuel Inlet 47oR Relocate Fuel Inlet 55oL Ignition Upgrade Phase I - 10E75 Sparkplug Phase II - Comb. Hd. Phase III - CTA & Fuel Feed Auto Reset - O/T Switch
	* <b>10E21-4EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
T-1040 PA-31T3	23E62-1 23E62-2	B4050 B4050	Original - new model, 1982 Auto Reset - O/T Switch
	* <b>23E62-2EL</b>	<b>B4500</b>	<b>Extended Life Tube</b>
SENECA, 12 VDC PA-34	90D38-1	B3040	Optional - B3040 - now std.
	* <b>90D38-1EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
SENECA, 24 VDC PA-34	91E88-1	B3040	Original - New Model, 1988
	* <b>91E88-1EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
SEMINOLE PA-44	90D38-2	B3040	Original - flue change to -1
	* <b>90D38-2EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
AEROSTAR 600	22D25 22D25-1	B3040 B3040	Original - Calibrated Head Standard Head, 1974
	* <b>22D25-1EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>
AEROSTAR 601P-700P	B34D51 D34D51	B3040 B3040	Original - Calibrated Head Standard Head, 1973, Ign. Chg.
	* <b>D34D51EL</b>	<b>B3500</b>	<b>Extended Life Tube</b>

(\*) indicating the current production model of a given Heater.