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Service Information Letter

The technical content of this letter is FAA Approved

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Overheat Limit Switch Replacement - P/N ( )07D29 for Janitrol Aircraft Cabin Heaters

INTRODUCTION:

Over the past several years, Kelly Aerospace Janitrol Heaters has found it necessary to find alternate vendors for a number of components used in the Janitrol Series B cabin heaters. In many cases these components have minor variations in appearance but are essentially identical. When minor changes occur, the part will be used without changing the part number as the part has not significantly been changed. No indication of this change will appear in the maintenance/overhaul manuals and parts catalogs. Description and identification of the new replacement switch will only appear in a Service Information Letter and is the only means to identify the switch should the need arise.

This Service Information Letter is intended to provide identification criteria and to announce the change and availability of a replacement Overheat Limit switch for the continued support and maintenance of Kelly Aerospace Power Systems (Janitrol) aircraft cabin heaters.

COMPLIANCE:

At the discretion of the owner/operator and/or facility performing maintenance any time a repair or overhaul is made to the cabin heater or should any malfunction of the Overheat Limit switch be diagnosed.

EFFECTIVITY:

Any aircraft or rotorcraft utilizing a Kelly Aerospace Power Systems Janitrol (JanAero) cabin heater which uses the P/N 07D29 Overheat Limit Switch (or of any prefix letter).

PROCEDURE:

NOTE:

Due to the nature of selection of Janitrol TSO'd aircraft heaters, the series 07D29 limit switch may be used in many heater applications. Some of these, but not all, are included in Table 1 on page 3. If you do not see your model number in the Table, check the applicable aircraft or rotorcraft manufacturers manuals for Janitrol model and/or part number. In some cases, examination of the existing part may reveal the part number as well.

1. If it becomes necessary or is desired to replace the P/N 07D29 overheat limit switch, (any prefix), it will be noticed that the replacement switch is of a different configuration but retains the same part number.
2. The new switch is shown from the sensor side as seen in Figure 1. This side shows the date code stamp and temperature rating stamp. *See Table 1*
3. The new switch as shown in Figure 2 will use the same gasket , hardware and hardware torque as the original. However depending on the heater wiring, the connections may need to be adjusted to accommodate different length or geometry. Be sure to record and mark all wire positions prior to removing to ease reinstallation. *Never use an inline splice, always trace the wire to its source or nearest terminal connector and replace the entire wire using equivalent type and size wire and terminals.*
4. For comparison, see the existing style switch shown in Figure 3.

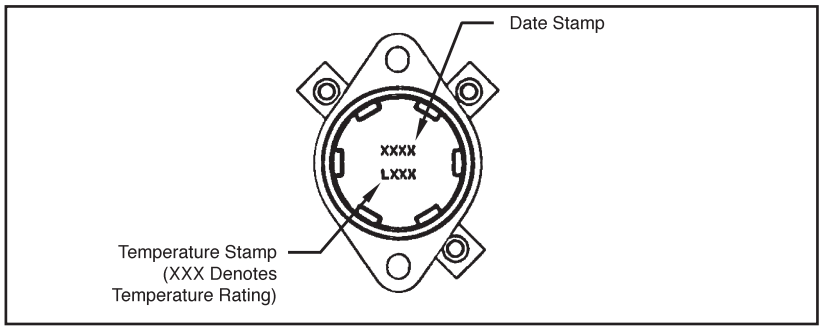

Figure 1 - New switch detail

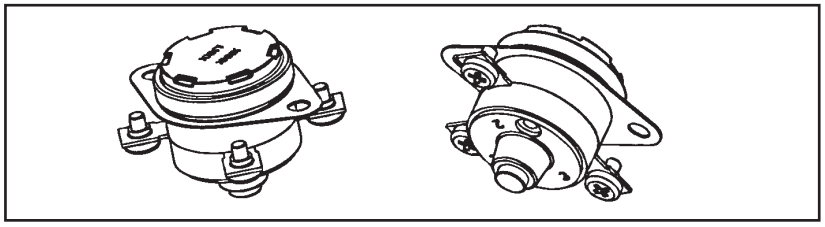

Figure 2 - New switch style

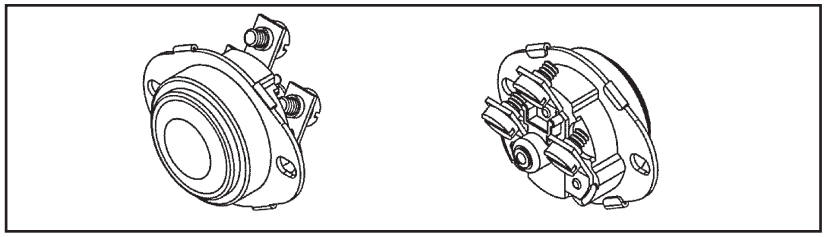

Figure 3 - Existing (old) switch style

5. Testing remains the same as the original switch. Use Table 1, referring to your specific switch to obtain opening temperature levels
6. Make an appropriate logbook entry of the installation of the new overheat limit switch and all other associated work. Refer to this service information letter as required.

MATERIAL REQUIRED:

As required one (1) each, ( ) 07D29 Overheat Limit Switch. Determine the applicable prefix to the part number by referring to the appropriate parts list for the cabin heater installed or identifying the switch installed. Table 1 below shows the old and new switch part numbers as well as the temperature range to help identify the part.

STOCK DISPOSITION:

None. Any existing inventory of the original part number(s) is acceptable for continued use.

WARRANTY STATEMENT:

There is no warranty related to this publication. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the cabin heater, aircraft or rotorcraft. All claims for warranty must be forwarded to the the airframe or rotorcraft manufacturer per the requirements contained in their Limited Warranty policies as applicable.

For questions concerning this product improvement please contact KAPS, JanAero Devices Service Dept. at 334-227-8306. Contact your local KAPS distributor to purchase this service part.

NOTE:

Not all heaters using 07D29 series switch are included in Table 1 below. If you do not see your model number in the Table, check the applicable aircraft manufacturers manuals for part number - or - look in KAPS manuals (P/N 24E25-1or 94E47) - or - Examine the existing part for indication of the part number.

Table 1 - Overheat Limit Switch

07D29	A07D29	B07D29	D07D29
Temperature Setting	**Temperature Setting**	**Temperature Setting**	**Temperature Setting**
Opens at 255˚ F	Opens at 275˚ F	Opens at 150˚ F	Opens at 225˚ F
Heater Assemblies*	**Heater Assemblies***	**Heater Assemblies***	**Heater Assemblies***
07E02-1	C39D59	15D94	A34D35 & A34D38
81D94-3	20D35-1	56D03	B34D38 & C34D38
90E93-1	37D77-1		D07D29S
94E25-1	90D38-1		07E94-1 & 07E94-2
94E49	90D38-2		13E55-1 & 13E55-2
96C60	90E00-1		19E69-1 & 47D65-3
99C42-1	91E88-1		82D20-1 & 88D81-2
	91E88-2		90E14-1 & 91E18-1
	94E11-1		02E16-1 & 02E16-2
	96C62-1		02E17-1 & 02E17-2
	96C92		04E33-1 & 04E33-2
	96C92-1		04E34-1 & 04E34-2
	99C80		07E94-1 & 07E94-2
	99C80-1		10E21-1 & 09E57-1
			09E57-2 & 09E57-4
			02E16-3 & 02E16-4
			23E62-1 & 23E63-1
			32D99 & 34D38
			34D35 & 34D51
			47D70 & A47D70
			B47D70 & C47D70
			47D65-3 & 62D33-1
			66D90 & 66D90-1
			66D90-2 & 82D20-1
			88D81-2 & 88D81-3
			90E14-1 & 90E15-1
			91E18-1 & 91E19-1
			91E53-1 & 91E54-1
			94D08-1 & 94D08-2
			94D08-3 & 94D08-4
			94D08-5 & 94D23-1

*Includes aircraft heater model numbers with either or both designations “FR” (rebuilt) or “EL” (extended life tube).