



ELECTROSYSTEMS, INC.

JanAero Devices

PO Box 273 • Fort Deposit, AL 36032

(334) 227-8306 • (334) 227-8596 Fax

<http://www.kellyaerospace.com>

Service Bulletin

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JANITROL B-SERIES AIRCRAFT HEATERS COMBUSTION AIR & VENTILATION AIR BLOWER MOTORS

PREFACE: JanAero Devices has superseded certain combustion air and ventilation air blower motor assemblies as indicated in table I. As indicated in the table, the new replacement motors have the identical electrical power input requirements and power output as the existing motors. Consult your Janitrol heater manual for the exact motor applicable to your aircraft heater.

1. PLANNING INFORMATION:

- 1.1 Existing motor assemblies are still approved and may continue to be utilized and repaired in accordance with appropriate Janitrol heater maintenance manuals.
- 1.2 Replacement of the old motor is recommended during major overhaul of the heater or upon electrical failure of the existing motor's armature or field winding.
- 1.3 Due to a lack of available replacement parts for the old motor, JanAero Devices is not capable of supporting the overhaul or major repair of the old motor. At which time the existing field inventory of approved parts is exhausted it will be necessary to replace your existing motor upon failure as indicated in tables II and III.
- 1.4 All newly manufactured Janitrol B-Series heaters will incorporate the new replacement motors.
- 1.5 The new motor assemblies are slightly smaller in diameter than the existing motors and will require a mounting adapter kit as indicated in Table III when being replaced in existing ventilation air blower assemblies.
- 1.6 Combustion air blower motors are directly interchangeable and require no mounting adapter kit. (Ref. Table II)

2. DATA:

EFFECTIVITY - All B-series Janitrol heaters

COMPLIANCE - As required

MATERIAL - Reference Tables II and III

TOOLING - No special tools required

WEIGHT & BALANCE - Not effected

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TABLE I
MOTOR SPECIFICATION

Existing Motor	V	I Max	H.P	RPM	WT.	OPER. TEMP.	DUTY CYCLE	ALT	Replacement Motor
27D39	28	9	.25	8400	3.8/3.7	-65°F +50°F	CONT	30K	94E56-2
A27D39	28	9	.25	8400	3.8/3.7	-65°F +50°F	CONT	30K	A94E56-2
B27D39	28	9	.25	8400	3.8/3.7	-65°F +50°F	CONT	30K	B94E56-2
34D30	12	12	.11	8400	3.8/3.7	-65°F +50°F	CONT	30K	94E56-1
34D31-1	12	12	.11	8400	3.8/3.7	-65°F +50°F	CONT	30K	A94E56-1
55D81	28	16	.4	9800	4.1/3.7	-65°F +50°F	CONT	35K	94E56-3

TABLE II
COMBUSTION AIR ASSEMBLY MOTOR SUPERSEDURE CHART

COMB. AIR PART NO.	OLD MOTOR NO.	NEW MOTOR NO.
10E26-1,-2,-3	27D39	94E56-2
10E26-4	27D39	94E56-2
30D40-1	27D39	94E56-2
A30D40-1	34D30	94E56-1
B30D40-1	27D39	94E56-2
C30D40-1	27D39	94E56-2
D30D40-1	27D39	94E56-2
89D33-1	27D39	94E56-2
89D33-2	27D39	94E56-2
83D91-1	27D39(89D33-1)	94E56-2
83D91-2	27D39(89D33-1)	94E56-2
91E33-1(uses 10E26-4)	27D39(10E26-4)	94E56-2
16E68-1	27D39(10E26-2)	94E56-2
16E68-2	27D39(10E26-3)	94E56-2

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TABLE III

VENTILATION AIR ASSY MOTOR SUPERSEDURE CHART WITH ADAPTER KIT REFERENCE

Existing Vent Air Blower Assy Part No.	Replacement Vent Air Blower Assy Part No.	Existing Vent Air Blower Motor Part No.	Replacement Vent Air Blower Motor Part No.	Replacement Motor Adapter Kit Part No.
51D07	B51D07	55D81-2	94E56-3	AK86D73-3
*A51D07	C51D07	27D39	94E56-2	AK86D73-3
37E80-1	37E80-2	55D81-2	94E56-3	AK73D55-1
09E19-1	09E19-2	55D81	94E56-3	AK28D20-1
91E75-1	91E75-2	55D81-2	94E56-3	AK73D55-1
*04E40-1	04E40-4	04E45-1	94E56-2	AK87D87-8
*04E40-2	04E40-5	04E45-1	94E56-2	AK87D87-8
04E40-3	04E40-6	04E45-1	94E56-2	AK87D87-8
04E39-1	04E39-5	04E45-1	94E56-2	AK87D87-8
04E39-2	04E39-6	04E45-1	94E56-2	AK87D87-8
*04E39-3	04E39-7	04E45-1	94E56-2	AK87D87-9
04E39-4	04E39-8	04E45-1	94E56-2	AK87D87-9
33D07	33D07-1	A27D39	94E56-2	AK28D20-1
*B33D07	B33D07-1	A27D39	94E56-2	AK28D20-1
*D33D07	D33D07-1	A27D39	94E56-2	AK28D20-1
91E64-1	91E64-2	55D81-2	94E56-3	AK73D55-1
*91E34-1	91E34-2	55D81-2	94E56-3	AK86D73-2
*26D71	26D71-1	27D39	94E56-2	AK28D20-1
65D85	65D85-1	75D80	94E56-3	AK86D73-3
88D11-1	88D11-3	B27D39	B94E56-2	AK87D87-9
88D11-2	88D11-4	34D01-1	A94E56-1	AK87D87-9

Note:

1. Adapter Kit includes necessary brackets and hardware required for installation of new motor. (Motor not included)
2. Adapter Kit only required for initial vent air blower motor replacement.
3. Purchase of the new Vent Air Blower Assembly includes new motor installed in a Vent Air housing.

* Service Replacement Part Only - No Longer Current Production

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