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Service kit

FAA-DER APPROVED

Service instructions SK-S-6019EC-1-4

Title: Spares Replacement of Evaporator Blower Motors.

Applicability: Bell Helicopter Model 412 equipped with Air Comm Corporation Air

Conditioner Systems.

Date: September 5, 2008

Compliance: This is a spares replacement change for forward blowers only.

Background: This kit provides for the replacement of the existing evaporator blower

motor with an alternate motor.

This change is required because the original motor is no longer available.

Bill of Materials:

Items to be removed

Item	Part Number	Description	QTY.
1	ES61060-2 or ES61062-1	Motor	1
2	AN525-8R10	Screw	4

Items to be installed

Item	Part Number	Description	QTY.
1	ES61064-10	Motor	1
2	S-6019EC-1	Adapter Assy	1
3	MS21042L3	Nut	6
4	NAS1149F0332P	Washer	6
5	MS24693-S273	Screw	4
6	TSE-12-001	TSE Connector	2

Please Contact Air Comm Corp Service Department for parts listed above. Phone # 303-440-4075 Fax # 303-440-6355 or info@aircommcorp.com

CAUTION

Disconnect Battery and External Power from aircraft starting work.

Replacement of Fwd Evaporator Motor

- 1. Remove existing TSE Connector from wiring harness.
- 2. Remove four screws holding motor assembly into blower enclosure.
- 3. Loosen retaining set screw and remove blower wheel from motor shaft. Retain blower wheel.

NOTE

It may be necessary to apply heat to the set screw of the blower wheel to separate the two parts.

- 4. Install existing blower wheel on new motor. Press the blower wheel onto the motor shaft until it stops against motor. Back blower wheel away to achieve a .030"-.040" clearance between blower wheel and new motor. Apply one drop of low strength Loctite to set screw and tighten against flat portion of motor shaft to lock wheel in place. (Figure 1.0)
- 5. Install S-6019EC-1 Adapter Assembly onto to evaporator assembly using 4 each MS24693-S273 screws. (Figure 3.0)
- 6. Install S-61064-10 motor/blower wheel assembly into evaporator enclosure using 6 each NAS1149F0332P washers and 6 each MS21042L3 nuts (Figure 3.0). Care should be taken to orient new electrical leads with existing wires to aid in splicing.
- 7. Splice new motor assembly into existing wiring using 2 each TSE-12-001 Connectors. (Figure 2.0).

NOTE

Due to the proximity of the flight controls it may be necessary to trim wires to maintain a neat and snag free connection. Care should be taken to ensure all electrical connections are properly insulated and secured.

- 8. After splicing new motor into the existing wiring harness perform an electrical check to ensure both evaporator blowers are running in the proper direction. Observe blower wheel rotation from blower outlet. Blower wheel should rotate toward blower outlet.
- 9. Return air conditioner to service.

Install existing blower wheel on new motor. Press the blower wheel onto the motor shaft until it stops against motor. Back blower wheel away to achieve a .030"-.040" clearance between blower wheel and new motor. Apply one drop of low strength Loctite to set screw and tighten against flat portion of motor shaft to lock wheel in place.



Figure 1.0 Blower Wheel / Motor Assy.

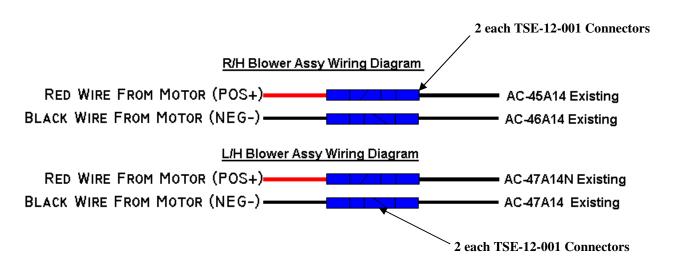


Figure 2.0 Blower electrical connections

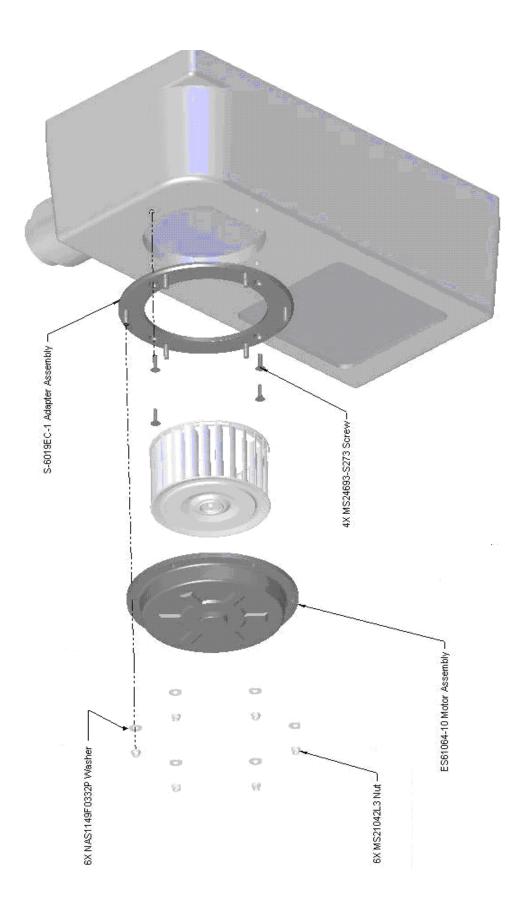


Figure 3.0 Blower Motor / Wheel Evaporator installation