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MAINTENANCE MANUAL
ELECTRICAL INFLATION VALVE
RETROFIT KIT

P/N 206-390-100

for

BELL 206A, B, L, L-1, L-3 MODEL HELICOPTERS

Report No. AA-96035

Revision E

April 17, 2001



LOG OF REVISIONS

Rev.	Date	Description	Effectuated Pages
-	4/24/96	Original Release	All
A	10/2/96	Deleted Pressure Test	3
B	11/14/97	Modified Electrical Test	3
C	3/2/98	Added Log of Revisions	2
		Added FAA Approval Statement	3
D	8/23/00	Added Section 2 Overhaul Requirement	3
E	4/17/01	Revised Section 2 Overhaul Requirement	4

This manual contains the necessary information to inspect and test the AERONAUTICAL ACCESSORIES, INC. **Electrical Inflation Valve Retrofit Kit** (P/N 206-390-100) on Bell 206A, B, L, L-1, L-3 Model Helicopters. This manual is FAA approved under STC No. SR00822AT.

1. Inspection Requirement

1.1 The Electrical Inflation Valve Retrofit Kit inspection must be conducted every 180 days or every 500 flight hours, whichever comes first.

1.2 Electrical Test Procedures:

- a.) Position MANUAL ARM switch in OFF position. Engage FLOAT POWER circuit breaker.
- b.) Position instrument panel switch to FLOAT TEST position.
- c.) Momentarily actuate float inflation trigger on pilot stick. FLOAT TEST segment shall illuminate indicating functional circuitry.
- d.) Position instrument panel switch to NORMAL position. FLOAT TEST segment shall extinguish.
- e.) Lift guard on MANUAL ARM switch and position switch to ON position. FLOAT ARM segment shall illuminate indicating functional circuitry.
- f.) Disconnect connector from Electric Valve Assembly.
- g.) Depress float inflation trigger on pilot stick and check for 28 Vdc across Pins A & B on Electrical Valve connector.
- h.) Close MANUAL ARM switch guard disarming system. FLOAT ARM segment shall extinguish.
- j.) Verify continuity across Pins A & B on Electric Valve Assembly connector.
- k.) Reconnect connector to Electric Valve Assembly.

2. Overhaul Requirement

- 2.1 Overhaul of the Electric Valve Assembly is required after every **6 years** of service, concurrent with the second reservoir hydrostatic test. The service life starts at the first installation date on the aircraft and runs uninterrupted thereafter.

NOTE

The Electrical Valve Assembly cannot be disassembled in the field. Repair and overhaul is not approved in the field. The Electrical Valve Assembly must be returned to Aeronautical Accessories, Inc. for overhaul or exchange. Aeronautical Accessories, Inc. will maintain an exchange pool of valves to allow continued operation.

- 2.1 An Historical Service Record Card (component card) is included with the Electrical Valve Assembly for use in recording the service and transfer procedures performed on it. It is to accompany the Electrical Valve Assembly when it is returned for overhaul. Upon initially receiving the Historical Service Record Card fill in the appropriate part number and serial number of the Electrical Valve Assembly at the top. Additionally, record the initial installation date and the aircraft serial number in the corresponding blocks. The service record portion of the card is provided to document all installation and removal actions and to track component time toward overhaul. Upon transfer, the appropriate Electrical Valve Assembly shipping and receiving information shall be recorded in the corresponding blocks of the transfer record.
- 2.2 See applicable Float Kit Operation and Maintenance Instructions for periodic functional test procedures.