



## SERVICE BULLETIN

No. 400-4-00

**Compliance mandatory**

**Subject:** Hydraulic Power Pack Failure

**Affected Aircraft:** EA-400 SN 03 through 14

**Purpose:** A premature failure of the gear hydraulic power pack pump motor has been reported. The pump motor failed due to thermal overload at the brushes.

**Approval:** The technical content of this Service Bulletin has been approved by the LBA.

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**This Service Bulletin consists of TWO PARTS. Check each Part for specific Compliance Time and Instructions**



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**PART I:**

Part I of this Service Bulletin provides initial instructions to be performed prior to next flight.

**Compliance Time for Part I:**

- With each preflight check and during operation

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After turning on the battery master switch and prior to engine start observe hydraulic power pack acoustically for operation. If continuous operation occurs abandon flight and repair hydraulic system prior to next flight.

Observe for repeated cycling of power pack during taxiing and flight operation. Power pack operation can be detected acoustically. If power pack cycles in intervals shorter than 15sec during a longer period of operation corrective maintenance action has to be performed prior to next flight.



## **PART II:**

Part II of this Service Bulletin provides instructions for technical modifications to the aircrafts hydraulic system and respective operation and maintenance information.

### **Compliance Time for Part II:**

- Within the next 10hrs of operation

### **Instructions:**

Part II of this Service Bulletin has to be performed at Extra Flugzeugbau facilities or by its personal at maintenance stations.

1. Remove rear cover (commutator cap) of hydraulic pump motor. Check thermoplastic plate bearing the brushes for any signs of thermal damage or deformation. If any deficiencies are found here replace motor, if not reinstall rear cover.
2. Install the hydraulic accumulator as given on drawings EA-25064.50, EA-55501.00 and EA-55503.00
3. Install additional annunciator light "HYDR PUMP" according to drawings EA-95323.10, EA-95315.50 and EA-75113.03
4. Perform the following ground tests according to EA-05510.04
  - system pressures (Item II-7)
  - emergency extension test (Item III-4)
  - internal leaks, accumulator function (Item III-7)
5. Update the Pilot's Operating Handbook and Maintenance Manual.  
POH: => Edition 2, Revision 5  
MM: => Revision 6