

SERVICE INFORMATION NO. SI 42-040

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- 1) To distribute information from DAI to our customers.
- 2) To distribute applicable information / documents from our suppliers to our customers with additional information.

Typically there is no revision service for SI's. Each new information or change of that will be send along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 42

1.2 Subject:

Starting Engine with external power
ATA-Code: 72-00

1.3 Reason:

Importance of using the right procedure to start the engine on ground if external power is required.

1.4 Information:

The DA42 main battery is used as a backup in case of a total loss of electrical power generation. If no power from the alternators is available, all avionics and electrical equipment on board of the airplane are supplied by the lead acid battery also used for engine start. This is the reason for the operating limitation stated in the DA42 AFM Limitation Section allowing no NVFR or IFR flight with a depleted airplane battery or using an external power supply to start the engine if the subsequent flight is intended to be a Night VFR or IFR flight.

Under 4B.7 STARTING ENGINE WITH EXTERNAL POWER, Abnormal Operating Procedures of the DA42 AFM the appropriate procedure for the use of external electric power is published. **It is very important to carefully follow this procedure.** In particular that **just one of the two engines** is started using external electric power. The opposite engine **MUST** be started using the normal procedure **without the external power supply connected.** This ensures that the main battery recovered sufficiently for at least a safe VFR flight.

II. OTHERS

In case of doubt contact Diamond Aircraft Industries GmbH.