



**DA-40 DIAMOND STAR
HB-SDJ**

01.01.2012

MAX T/O weight		2535lbs	1150 kg
MAX LDG weight		2400 lbs	1092 kg
Approx. basic weight		1652 lbs	749 kg
Fuel max. indicated 2 x 15 USG	30 USG / 113 lt	180 lbs	81 kg
Approx. allowed load fuel max indicated		703 lbs	319 kg
Fuel full tanks 2 x 20 USG	40 USG / 151 lt	240 lbs	108 kg
Approx. allowed load fuel full tanks		643 lbs	291 kg

REGA ex Switzerland: **1414**
 REGA ex other countries: **+41 333 333 333**
 Close ATC-Flightplan: **0800 437 837**

INFO- Zürich 124,700 / Geneva 126,350
 FREQ: Langen 128,950 / Reims 124,100

Lärmklasse: D
 Fuel: AVGAS 100LL (blue)
 Oil: 15W-50 (multigrade ashless). Alternate: SAE 40 = Aviation W80 (single grade ashless)

Transponder:

Switzerland: Airspaces C/D AC (S) compulsory, squawk according ATC
 Airspace E/G: AC (S) compulsory above 7000 ft, squawk **A/C (S) 7000**

Altimetersettings: below 3000 ft GND: QNH (altitude), above 3000 ft GND: Standard 1013,2 hPa (flight level)

1. To get **Pressure-Altitude (PA)**: $28 \text{ ft} \times (1013 - \text{actual QNH})$
 if QNH > 1013: subtract result from airfield-altitude to get PA
 if QNH < 1013: add result to airfield-altitude to get PA

2. To get **ISA-Temp.** at PA:

$$15^\circ - \frac{(\text{PA} \times 2^\circ)}{1000}$$

3. To get **Density Altitude (DA)**: $120 \text{ ft} \times (\text{actual OAT} - \text{ISA-Temp. at PA})$
 if act. OAT > ISA: add result to PA to get DA
 if act. OAT < ISA: subtract result from PA to get DA