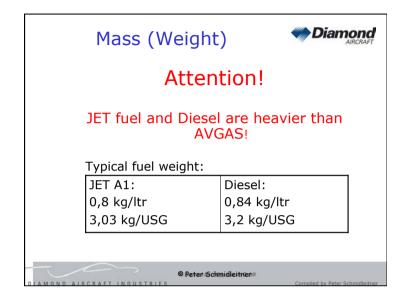
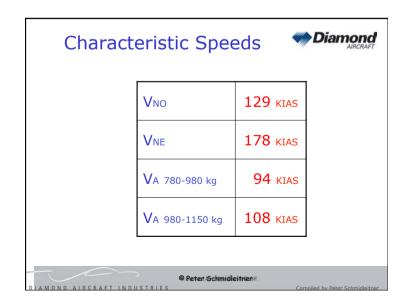


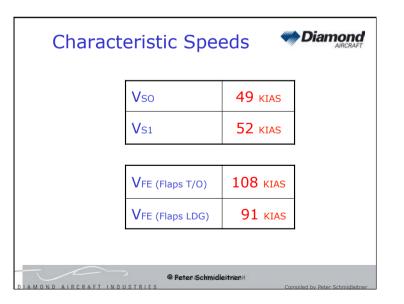


M	lass (Weight)	ass (Weight)	
	Empty (typical)	830 kg	
	Max TKOF	1150 kg	
	Max LDG	1150 kg	
	Max Baggage	30 kg	
	Max Baggage with "Baggage Extension"	45 kg (max 18 kg ii aft compartment)	
LAMOND ALRCRAF	© Peter Schmin T INDUSTRIES		biled by Peter Schmidleitner

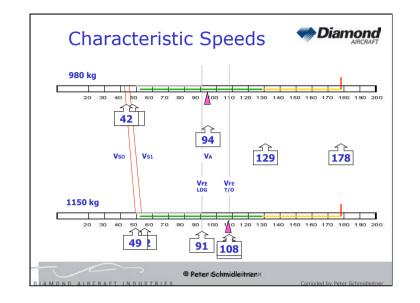


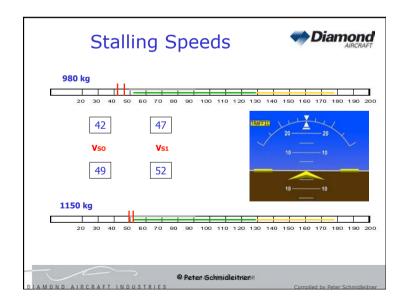


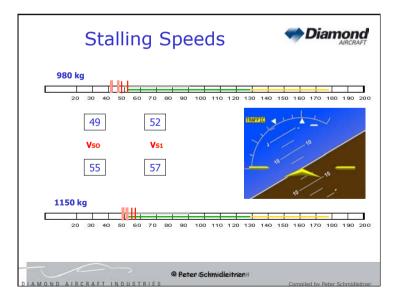


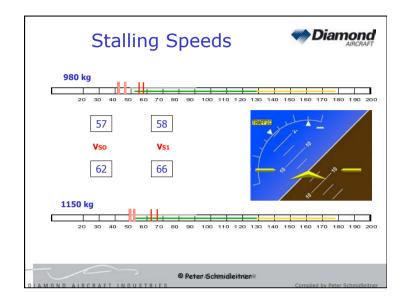


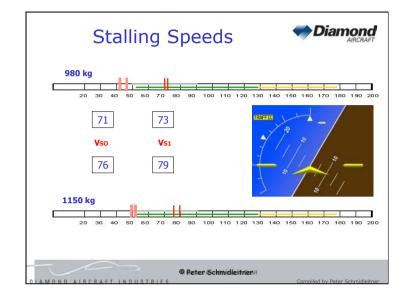
	850 kg	1000 kg	1150 kg
Vx = Vy	54 kias	60 kias	66 kias
V climb	60 kias	68 kias	73 kias
VLDG Flaps UP	60 kias	68 kias	73 kias
VLDG Flaps LDG	58 kias	63 kias	71 kias











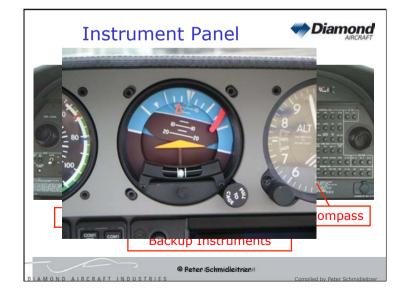


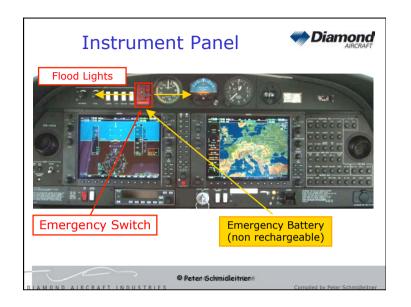








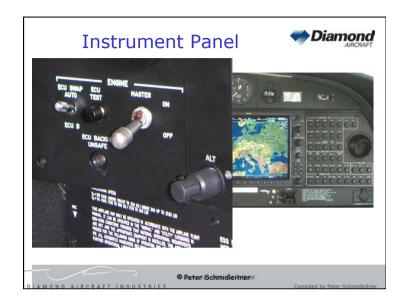








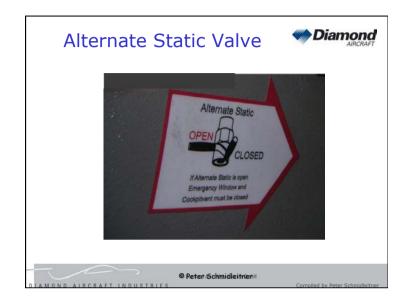




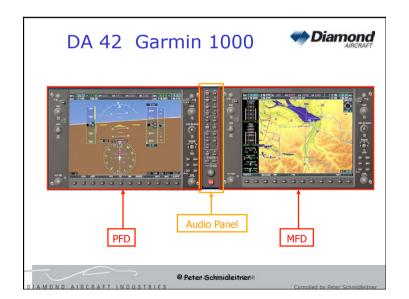


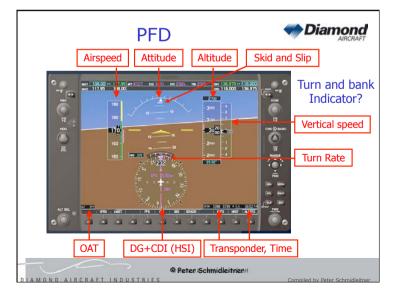


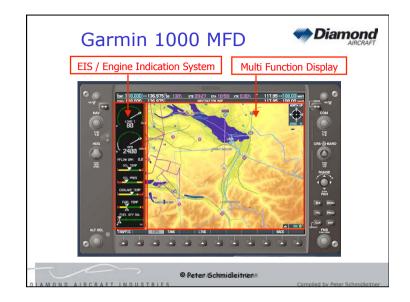


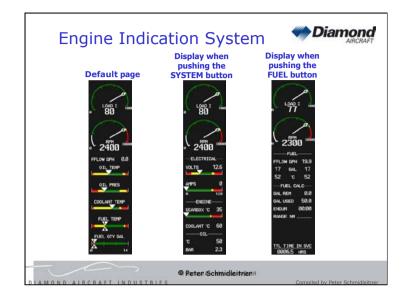


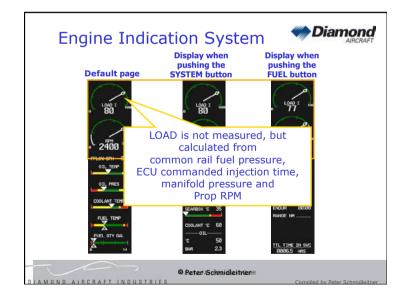


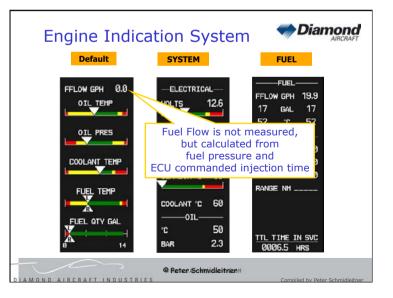


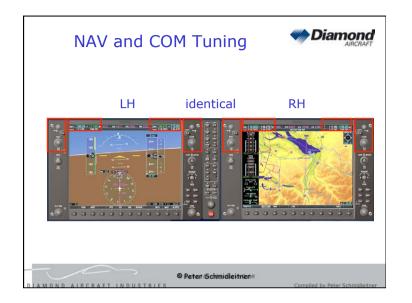


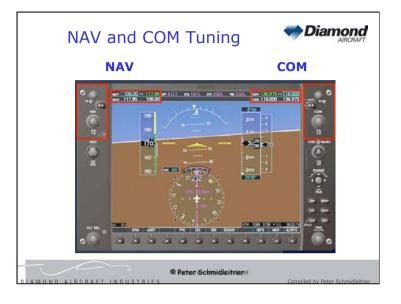


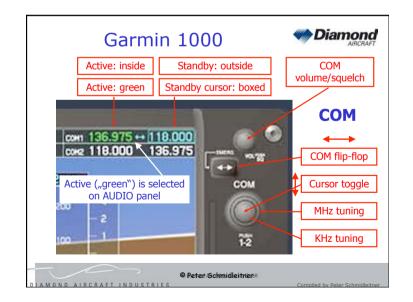


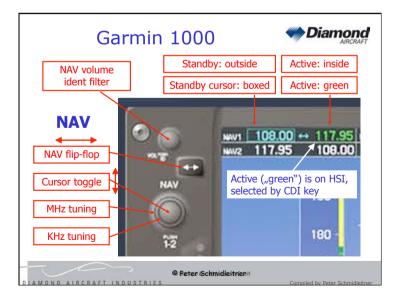


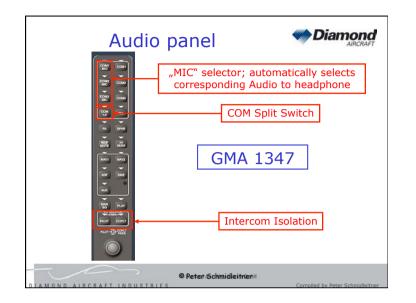




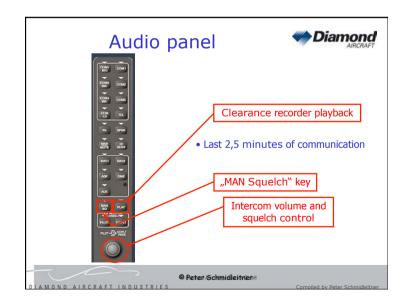




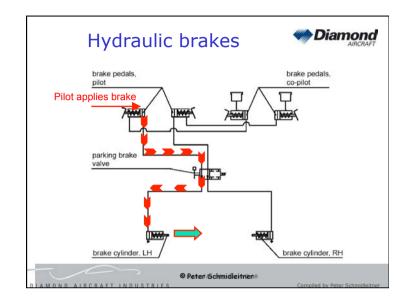


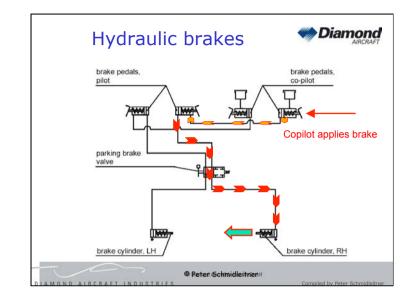


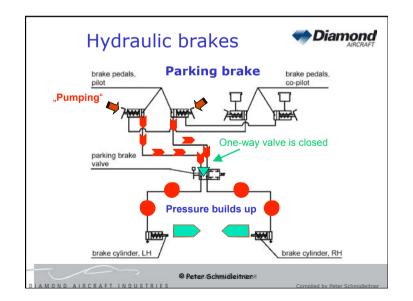










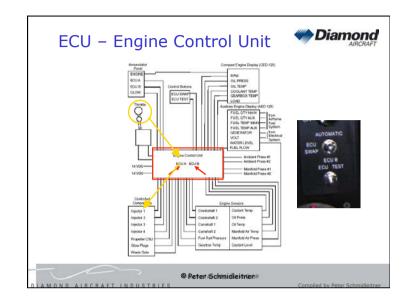




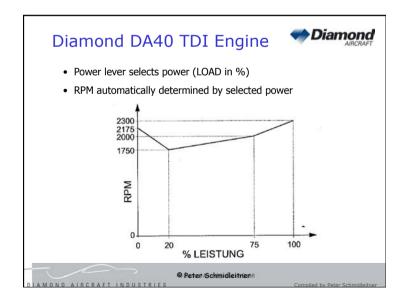


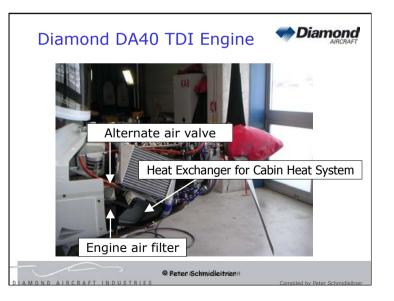


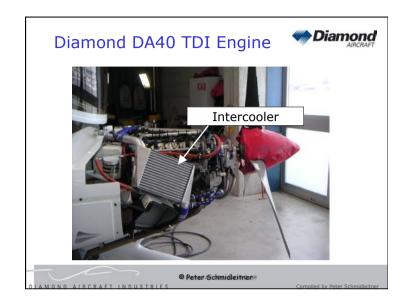


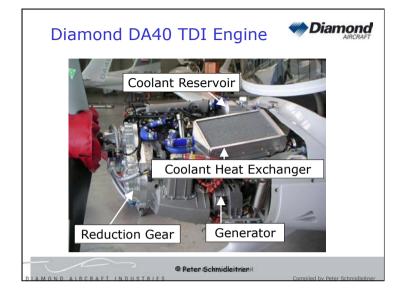










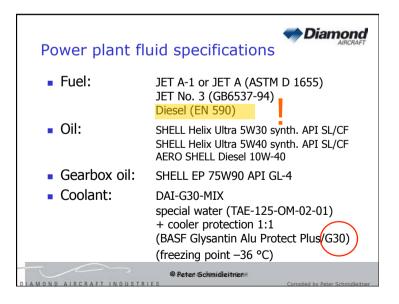


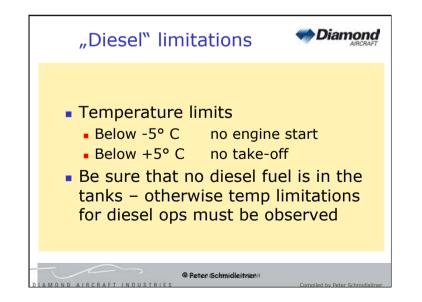


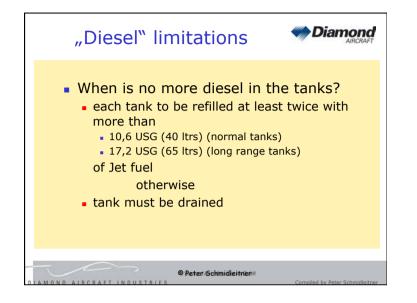


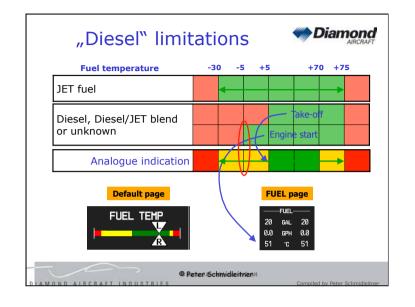
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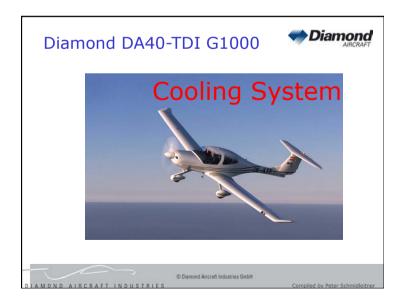


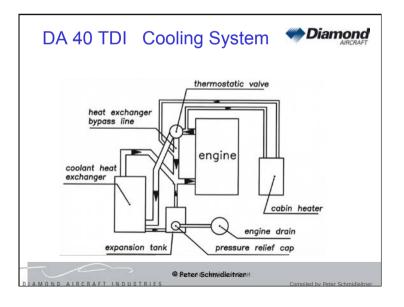


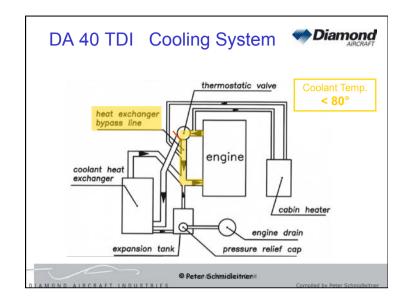


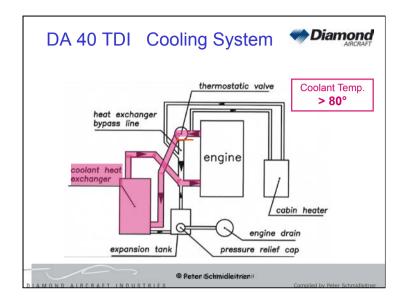


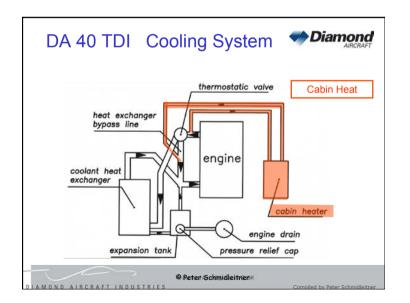


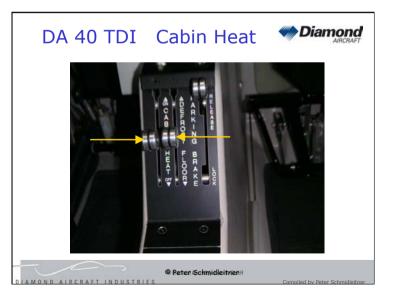


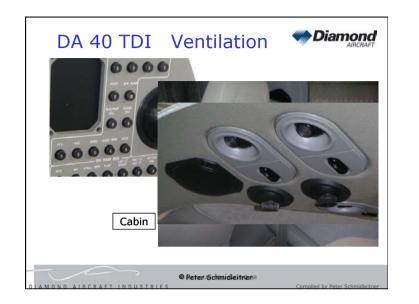


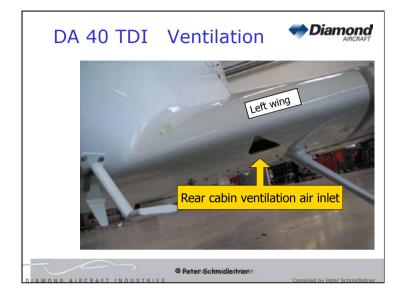




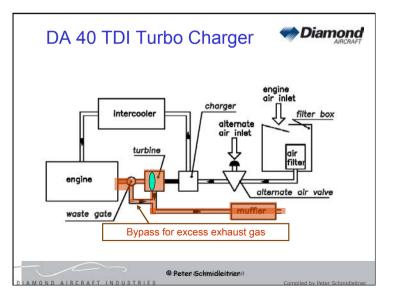


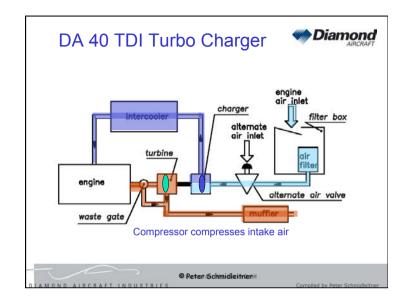




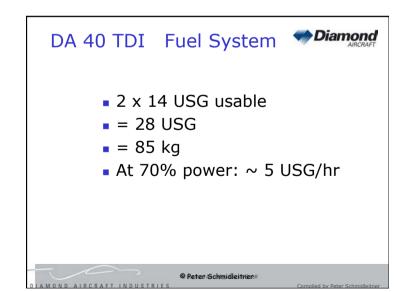


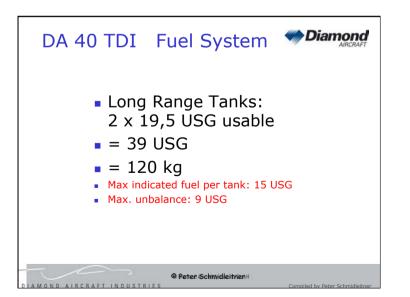


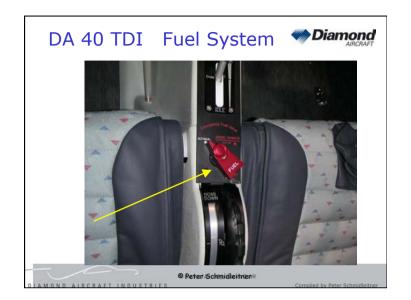


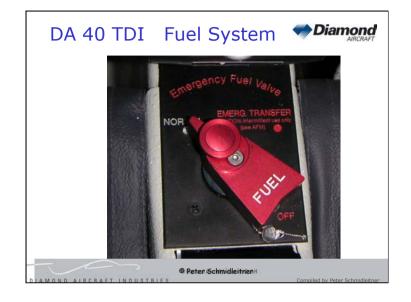


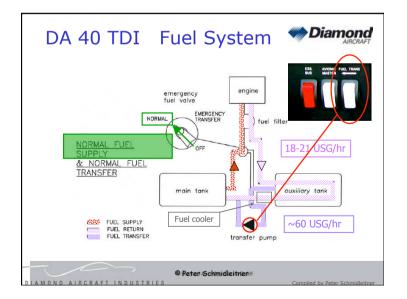


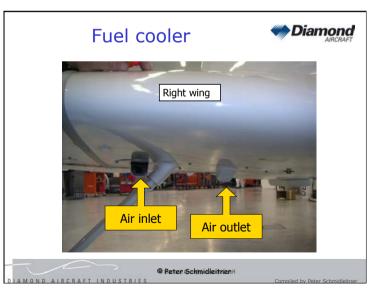


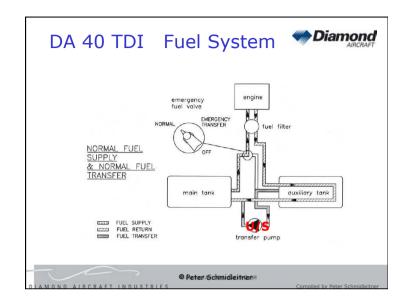


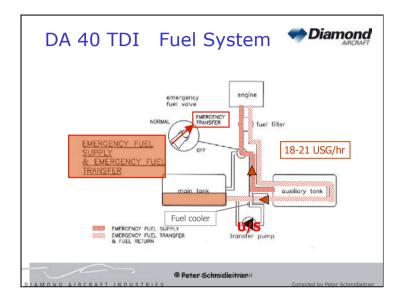


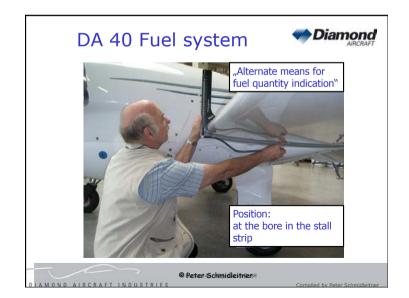


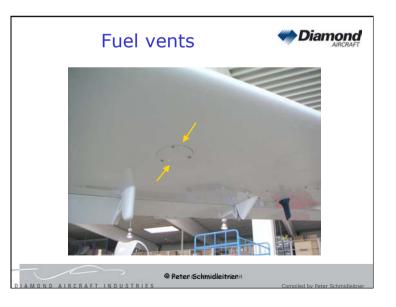




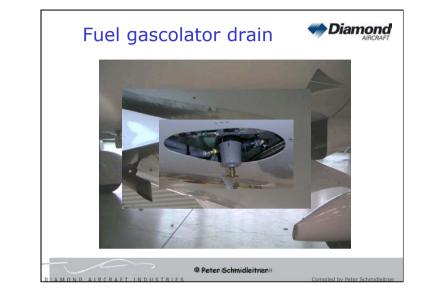




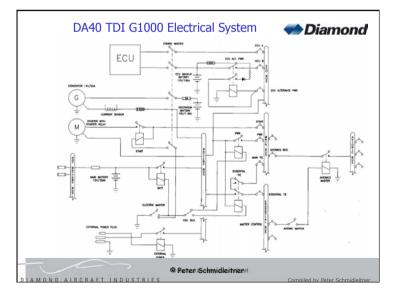


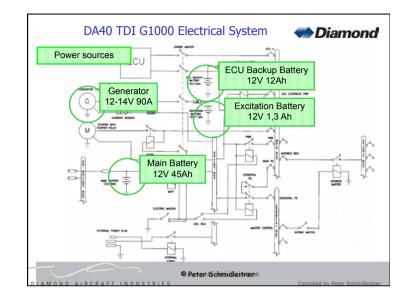


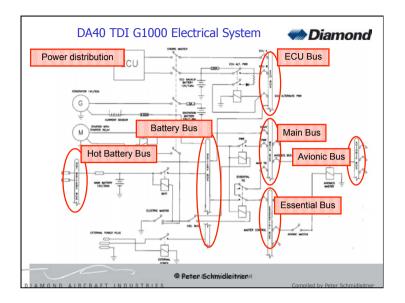






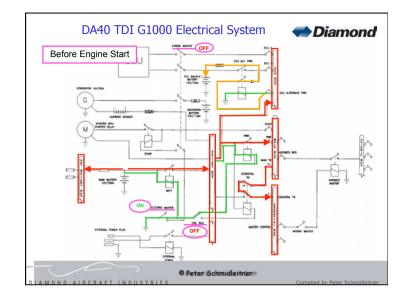


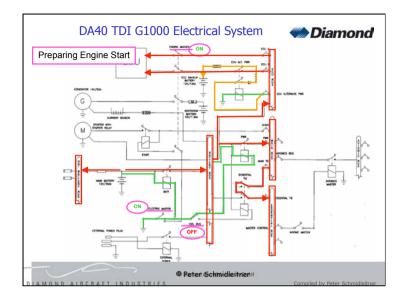


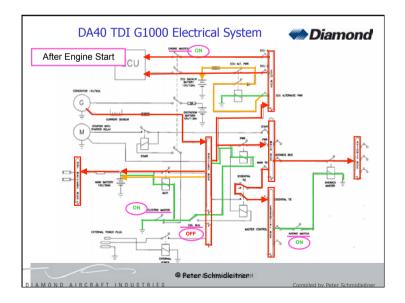


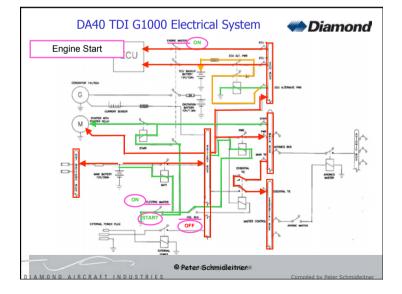


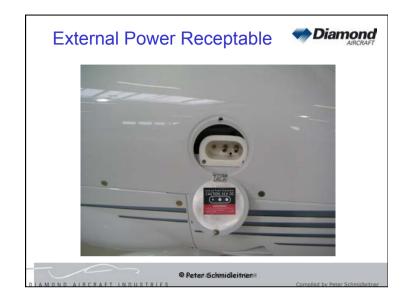


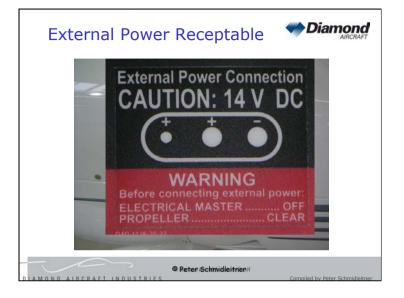


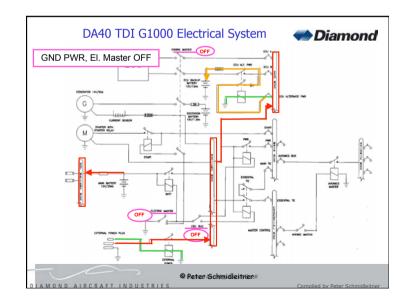


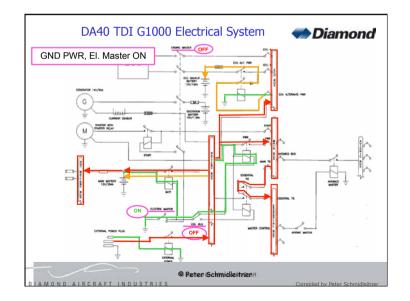








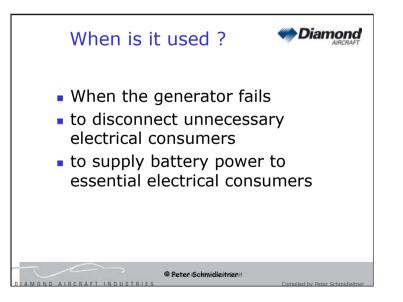




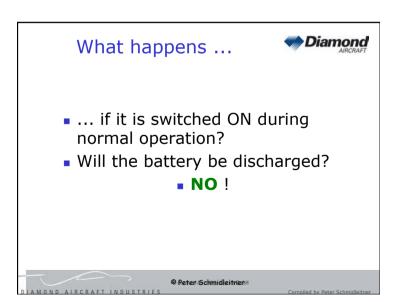


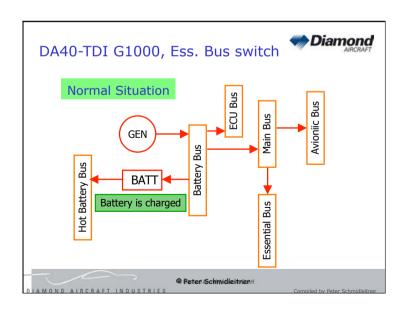


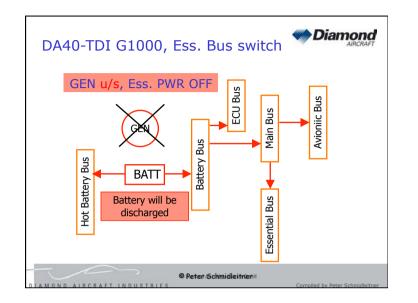


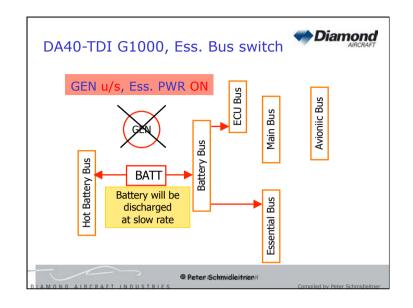


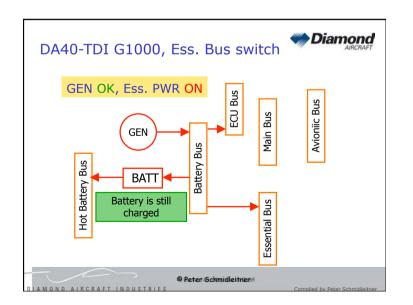


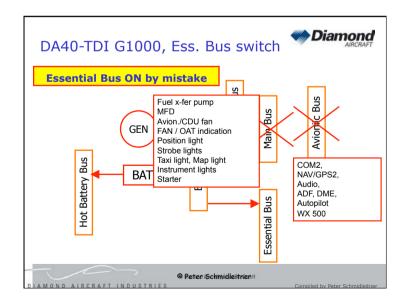


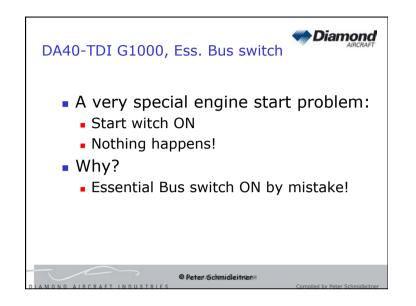


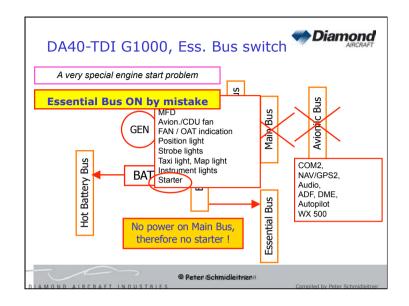


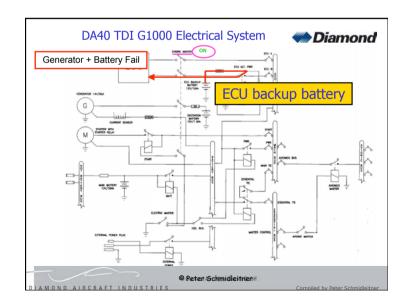




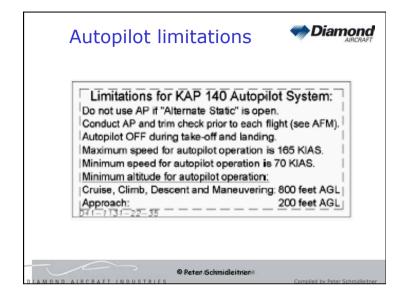


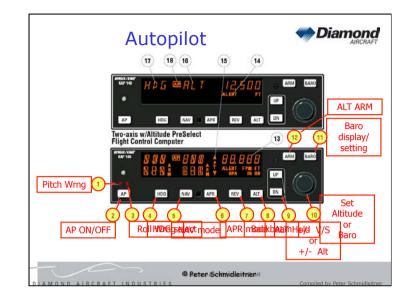


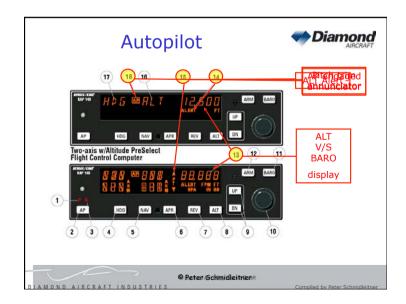


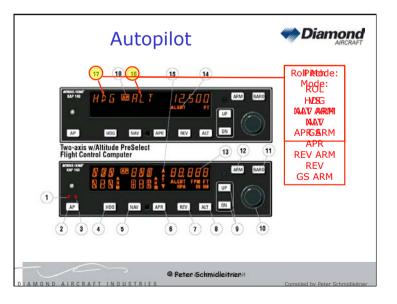


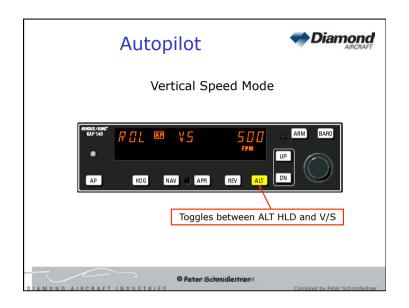


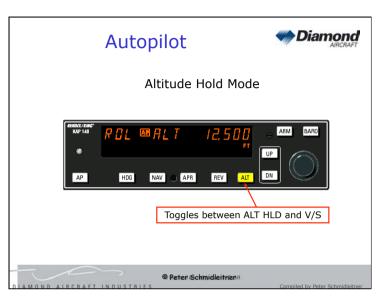


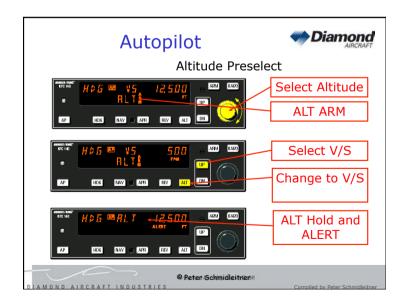


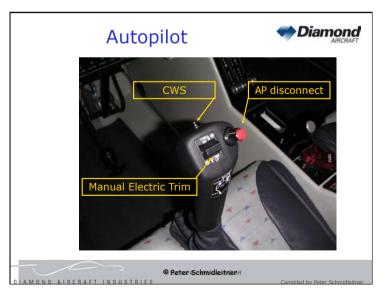




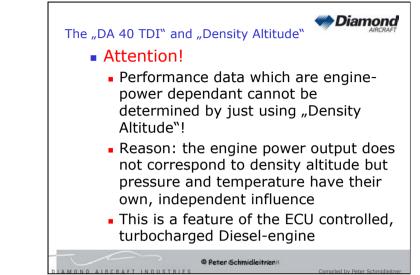


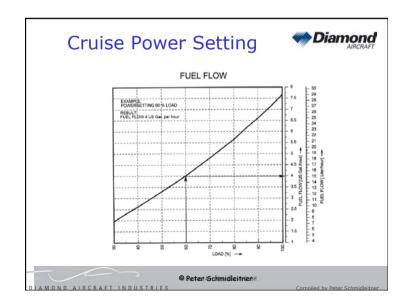


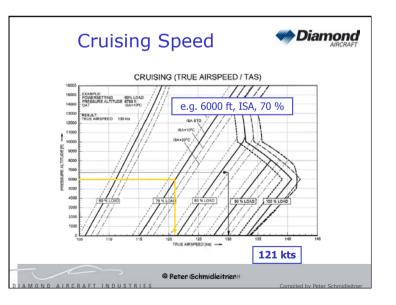


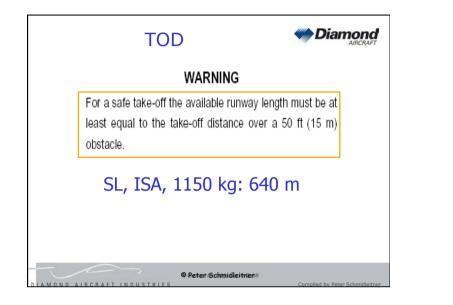


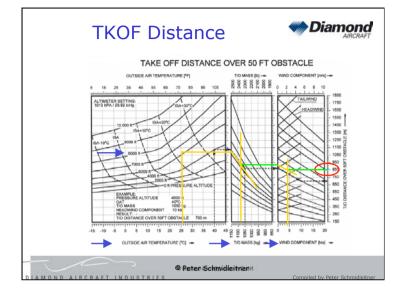


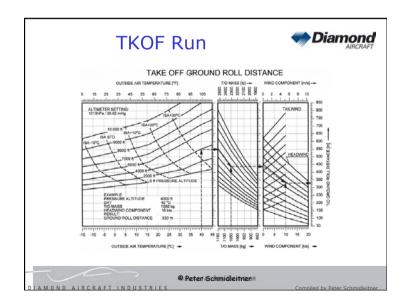


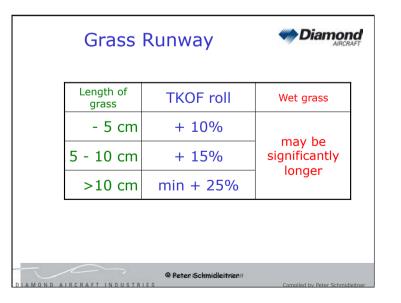


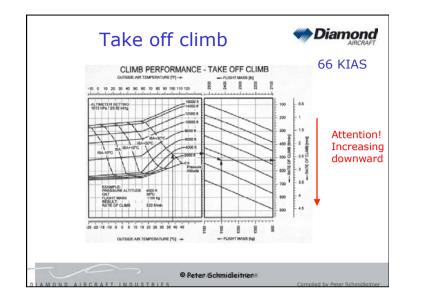


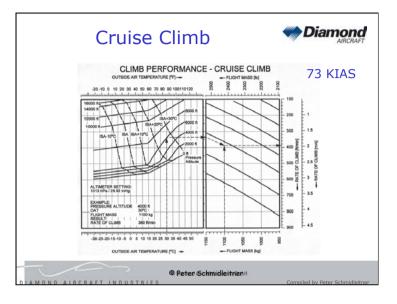


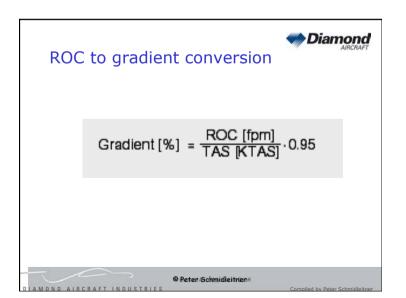




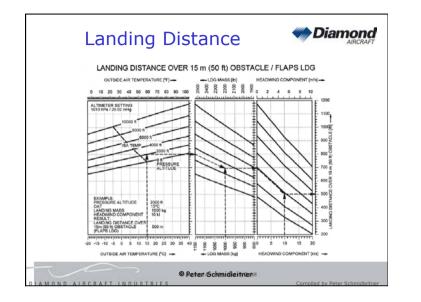


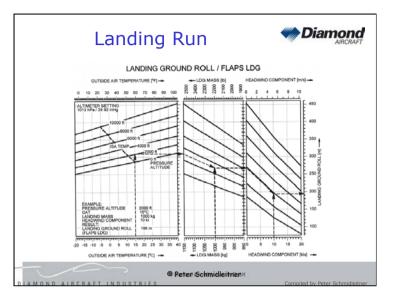






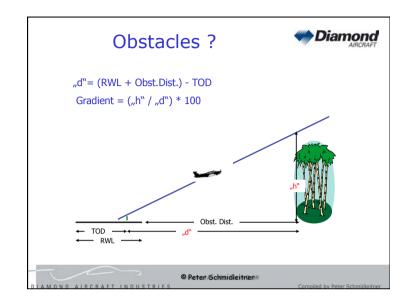
Flaps I	DC	values for ISA and MSL, at 1150	kg (2535 lb)
		Landing distance over a 50 ft (15 m) obstacle	744 m (2441 ft)
VREF 7	I KIAS	Ground roll	287 m (942 ft)
		WARNING	
	For a safe la	anding the available runway length must	be at least
	equal to the	e landing distance over a 50 ft (15 m) o	obstacle.

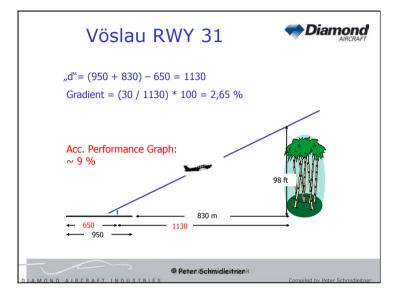


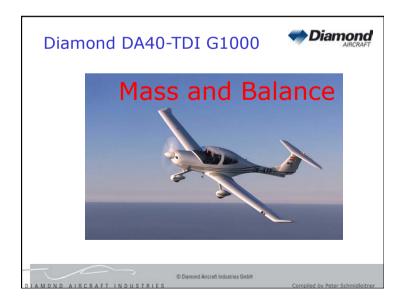


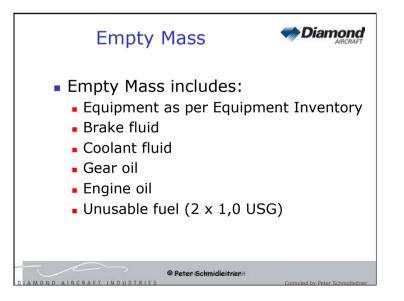
Grass	Runway	
Length of grass	LDG run	Wet grass
- 5 cm	+ 5%	– may be significantly – longer
5 - 10 cm	+ 15%	
>10 cm	min + 25%	

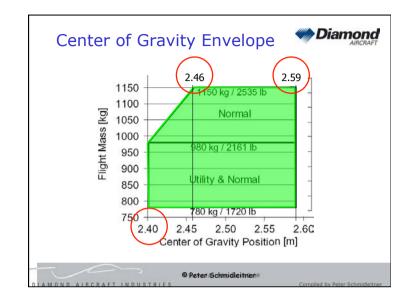
Go Around	
5.3.13 GRADIENT OF CLIMB ON GO-AROUND	
The DA 40 D reaches a constant gradient of climb of of 2.8°) in the following condition:	4.86 % (conforming to an angle
- Mass ma - Power lever M/ - Flaps LD - Airspeed 70 - ISA, MSL	AX IG
© Peter Schmidleitnier	Compiled by Peter Schmidleitner

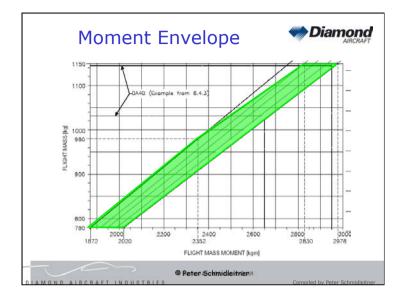










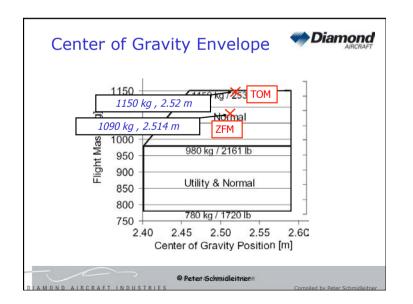


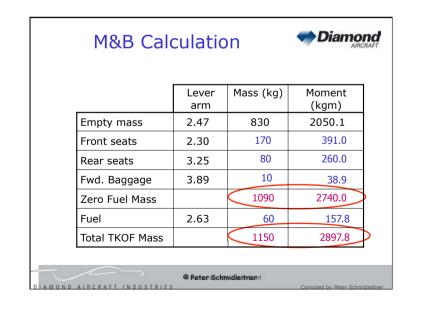
Item	Lever	
Item	Arm (m)	
Front seats	2.30	
Rear seats	3.25	
Wing tanks	2.63	
Fwd. baggage	3.89	
Aft baggage	4.54	

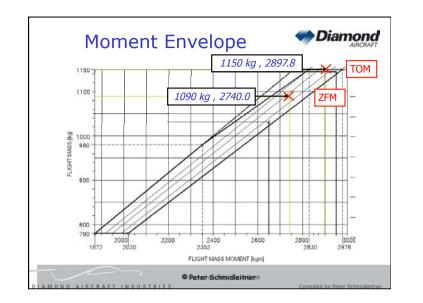
	Empty mass	Moment	CG arm
"IFR"-version (ADF, WX500)	833,5	2057,7	2,469
"N-VFR"-version	826,2	2032,3	2,460

	Lever arm	Mass (kg)	Moment (kgm)
Empty mass	2.47	830	2050.1
Front seats	170 x 2	.30 = 391.0	391.0
Rear seats	80 x 3	25 = 260.0	260.0
Fwd. Baggage	3.89	10	38.9
Zero Fuel Mass	5	1090	2740.0
Fuel ~20 USC	2.63	60	157.8
Total TKOF Ma	ss	1150	2897.8

	Lever arm	Mass (kg)	Moment (kgm)
Empty mass	2.47	830	2050.1
Front seats	2.30	170	391.0
Rear seats	3.25	80	260.0
Fwd. Baggage	3.89	10	38.9
Zero Fuel Mass	2.514	2740.0:1	090 = 2.514
Fuel	2.63	60	157.8
Total TKOF Mass	2.52	2897.8	1150 = 2.52

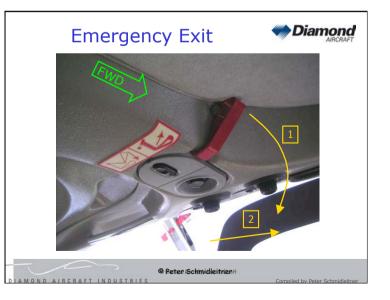
















	KOEL		
	for daytime VFR flights	in addition for night VFR flights	in addition for IFR flights
Flight & naviga- tion instru- ments	 airspeed indicator (on G1000 PFD or backup) altimeter (on G1000 PFD or backup) magnetic compass 1 headset, used by pilot in command 	vertical speed indicator (VSI) •attitude gyro (artificial horizon; on G1000 PFD or backup) •turn & bank indicator •directional gyro •VHF radio (COM) with speaker and microphone •VOR receiver •transponder (XPDR), mode A and mode C •GPS receiver	second airspeed indicator (both, on G1000 PFD and backup) second altimeter (both, on G1000 PFD and backup) second attitude gyro (both, on G1000 PFD and backup) second VHF radio (COM) VOR-LOC-GP receiver second GPS receiver

engine • fuel qty. • ammeter instru- • oil press. • voltmeter	
• oil press	
ments	
• oil temp.	
coolant temp.	
coolant level indicator	
gearbox temp.	
• load	
prop. RPM	
 fuel temp. left & right tank 	

	for daytime VFR flights	in addition for night VFR flights	in addition for IFR flights
ighting		 position lights 	
		 strobe lights (anti collision lights) 	
		 landing light 	
		 instrument lighting 	
		•flood light	
		 flashlight 	

for daytime VFR	in addition	in addition
flights	for night VFR flights	for IFR flights
ther pera- onal nini- num quip- nent * alternate means for fuel quantity indication (see Section 7.9) * safety belts for each occupied seat * Airplane Flight Manual	Pitot heating system alternate static valve	emergency battery (for backup attitude gyro and flood light) ECU-Backup Unsafe Warning Light





