

Diamond DA42 NG



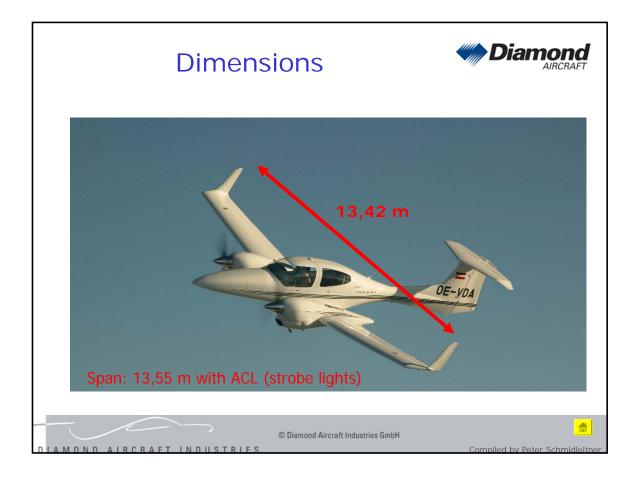
Handout DA42 NG Systems

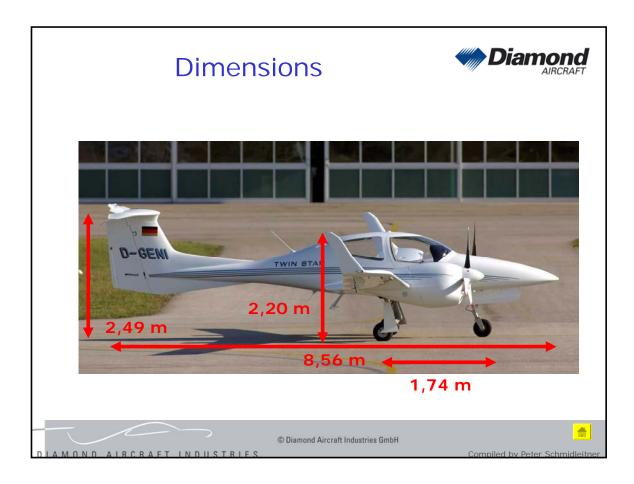


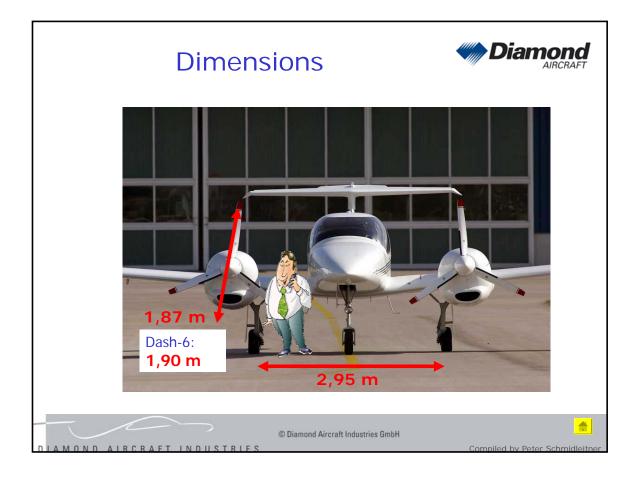
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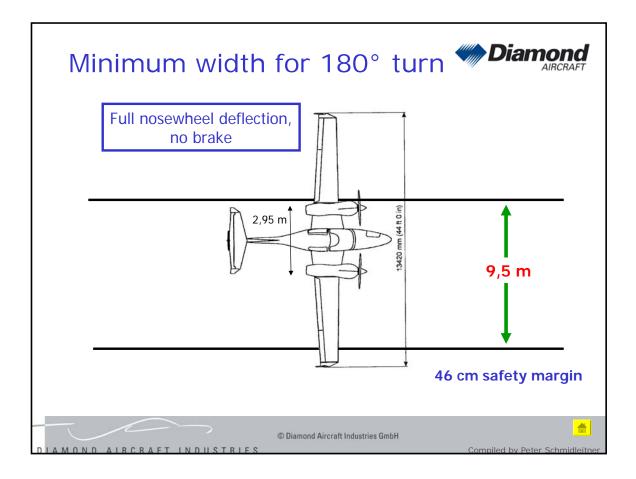
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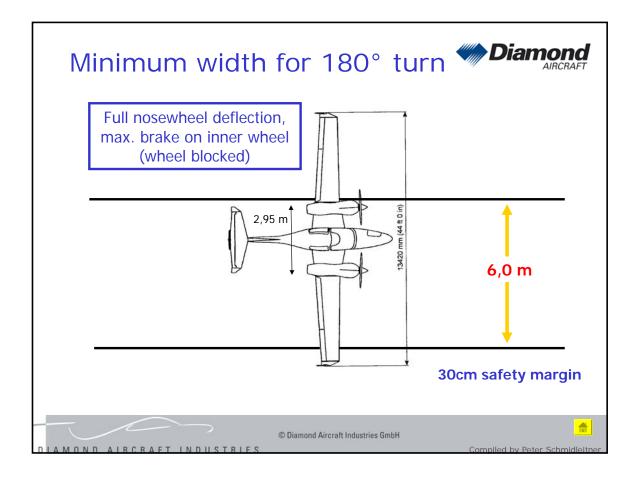




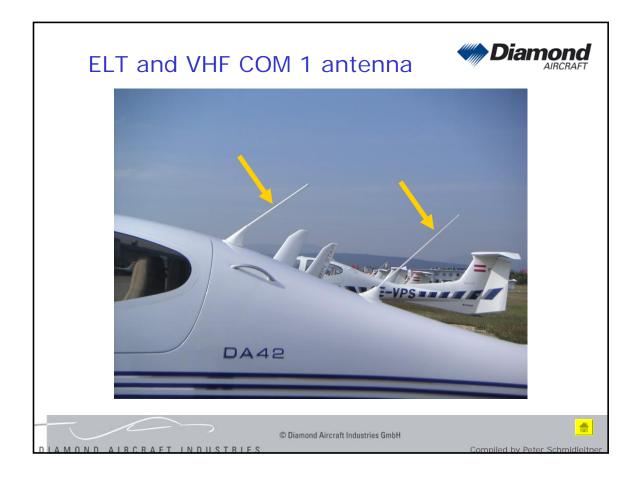




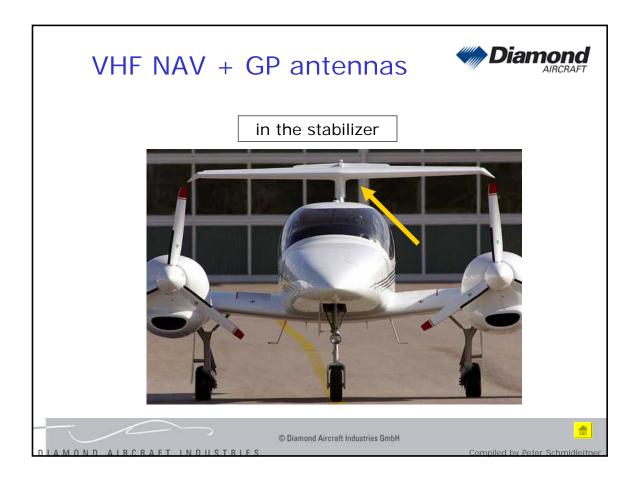


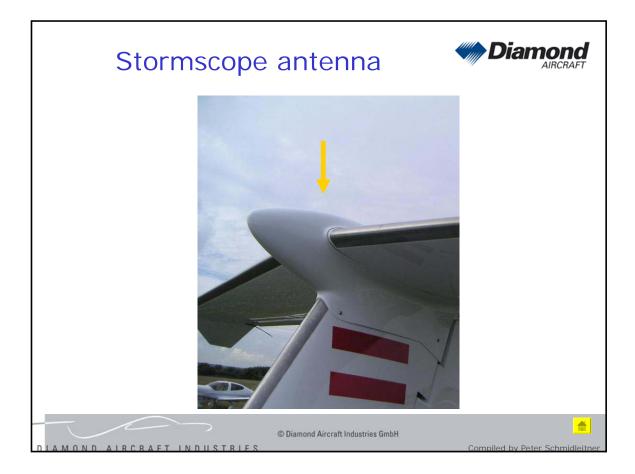


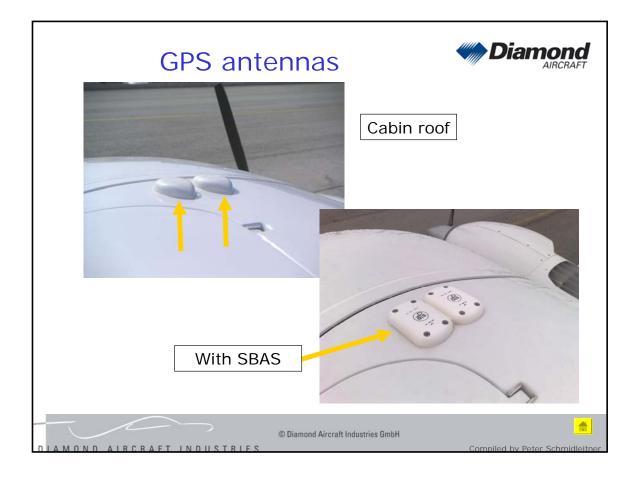




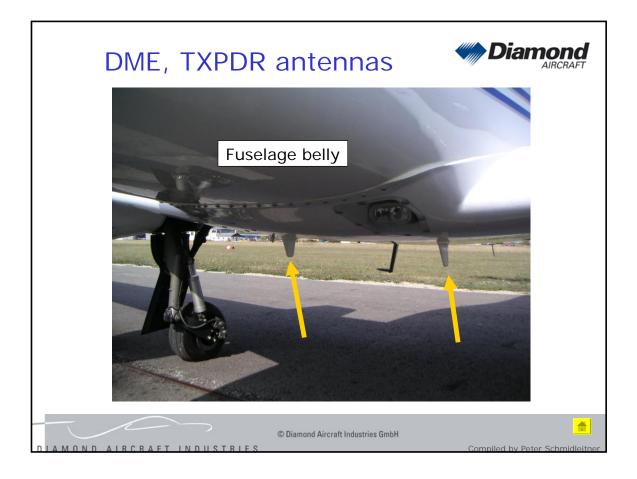


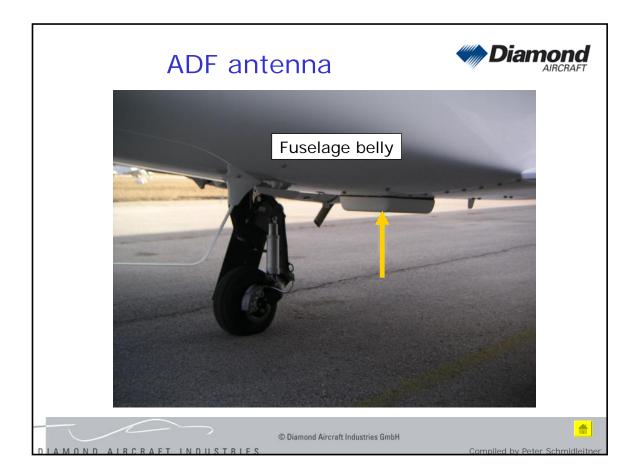


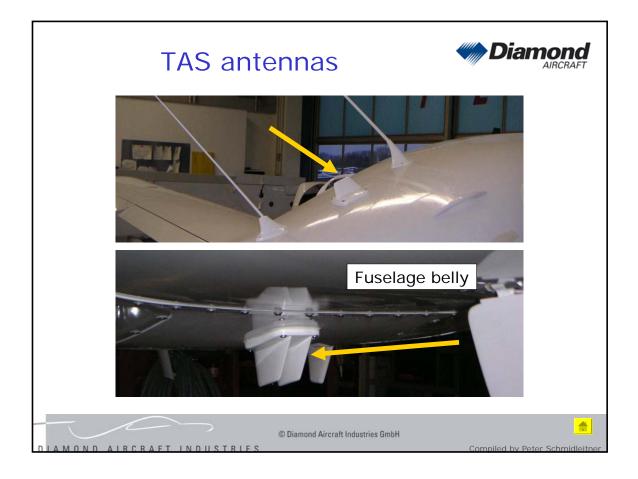


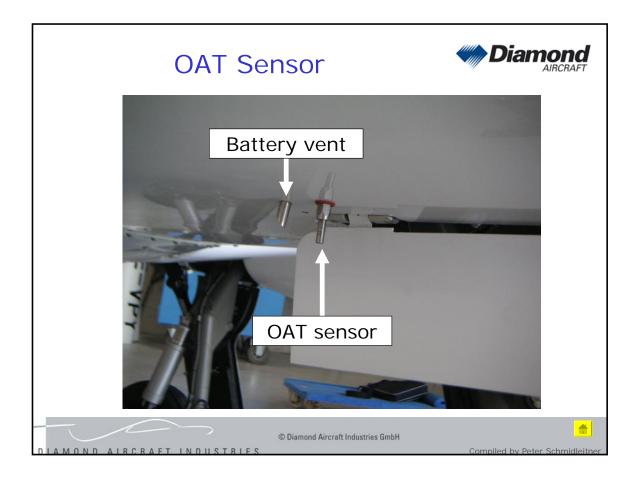


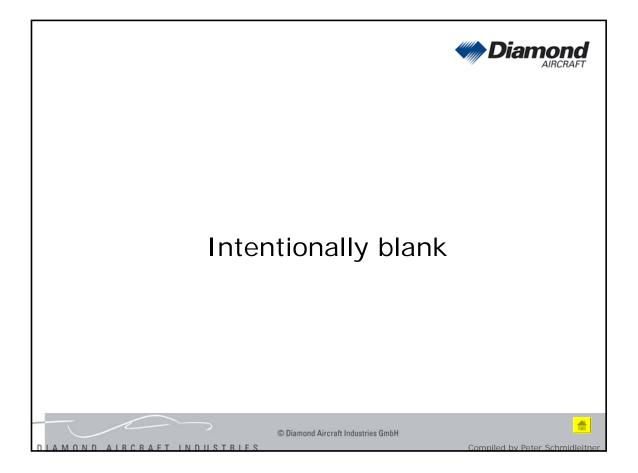


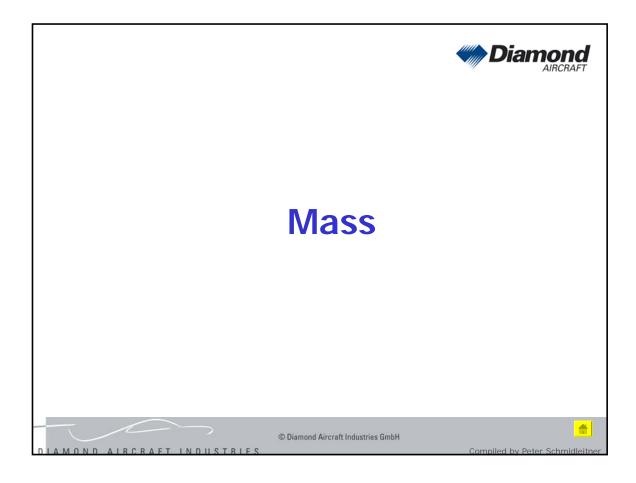




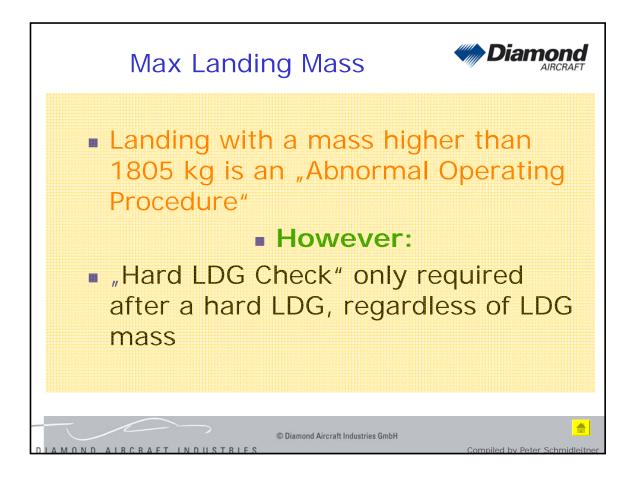




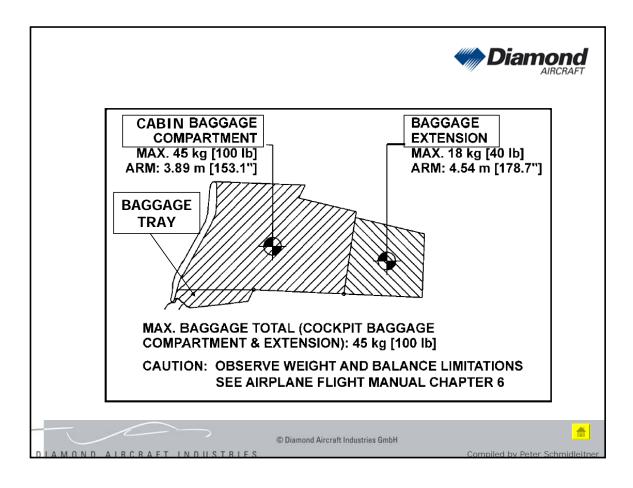


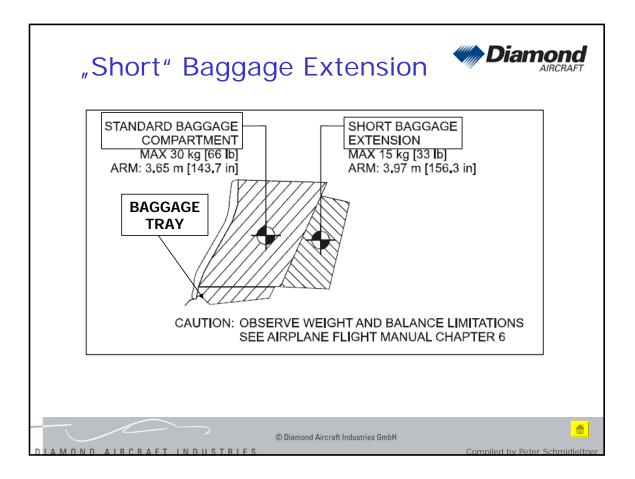


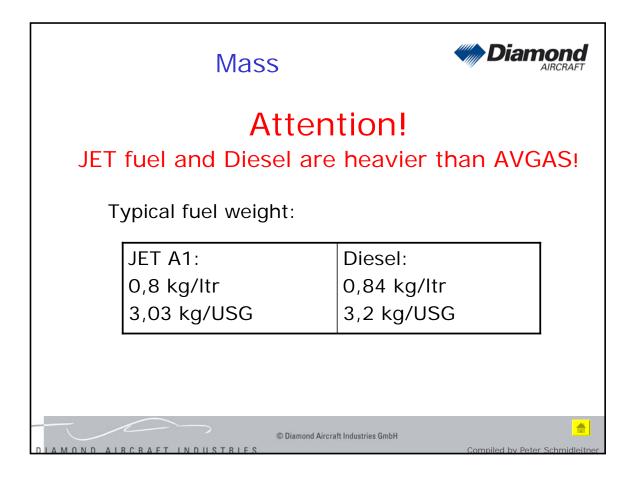
Mass (Weight)				
	Empty (typical)	1450 kg		
	Max TKOF	1900 kg		
	Max Ramp	+ 8 kg		
	Max Zero Fuel	1765 kg		
	Max LDG	1805 kg		
	Min for flight	1510 kg		
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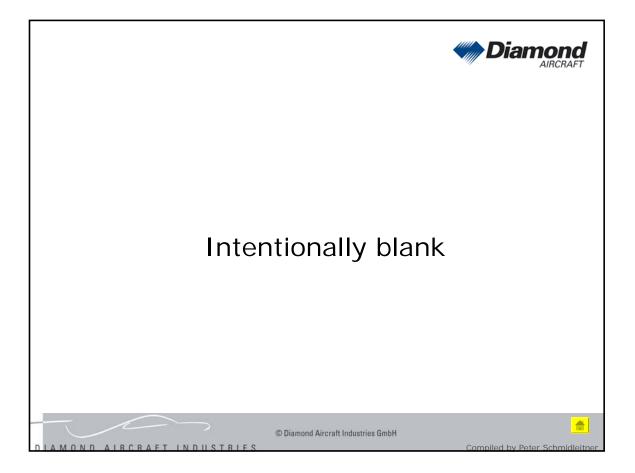


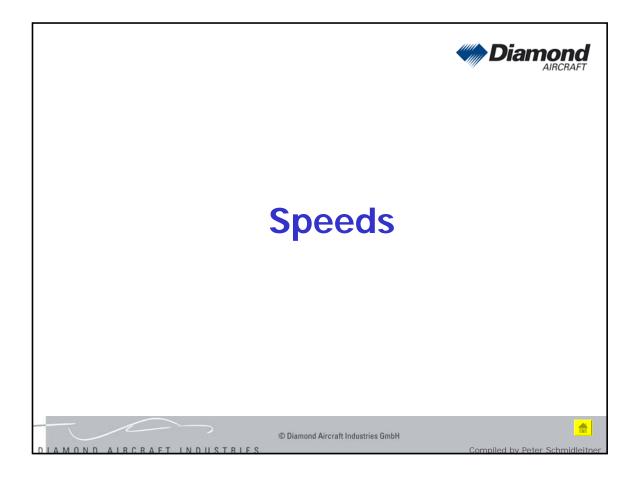
Nose compartment		30 kg	
	Standard	"Short" Baggage Extension	
Standard compartment	45 kg	30 kg	
Baggage Extension	18 kg	15 kg	
Total	45 kg	45 kg	

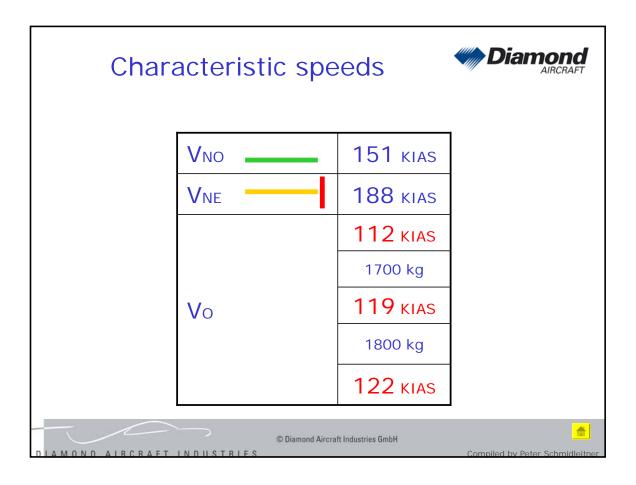


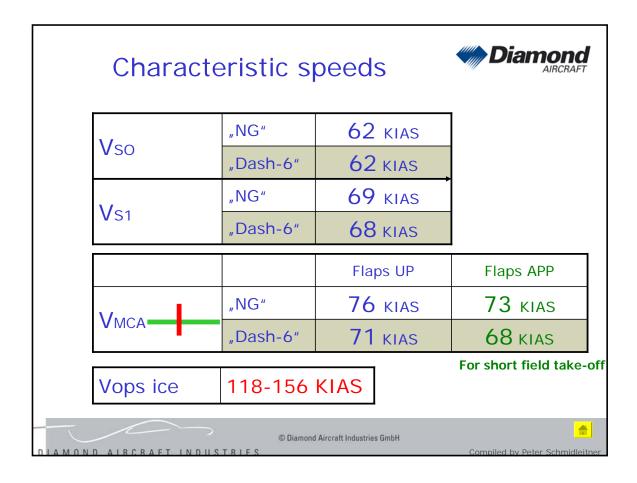




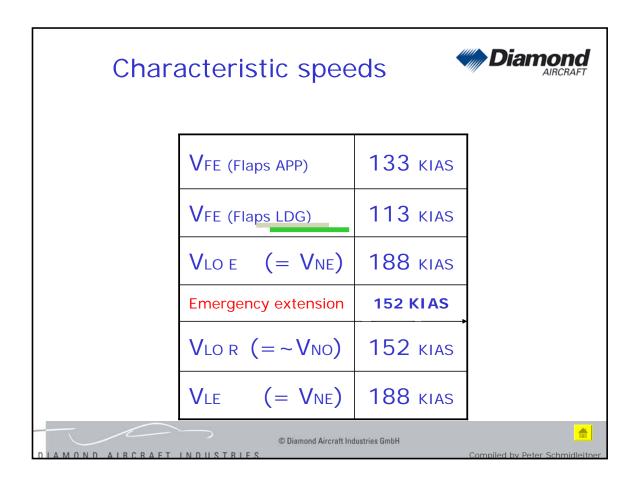


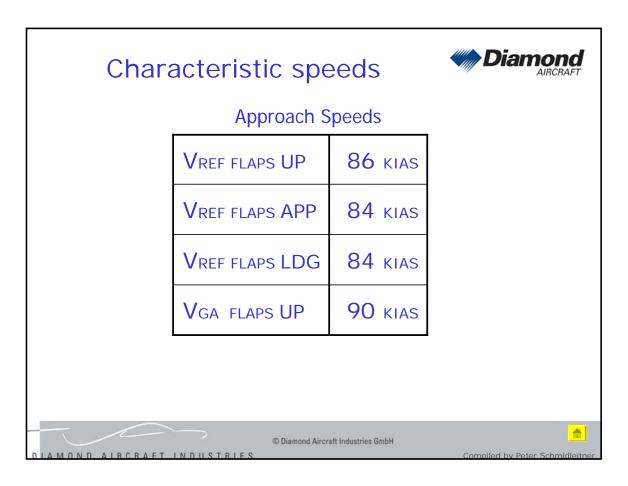






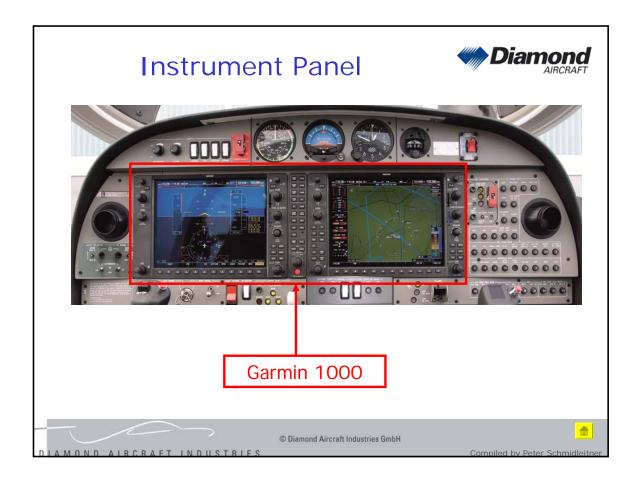
			For short field tak
		Flaps UP	Flaps API
	"NG"	80 kias	76 KIA
VR	"Dash-6"	76 kias	71 KIAS
N /	"NG"		82 KIAS
Vx	"Dash-6"		77 KIA
VY		90 kias	85 KIA
VYSE		85 kias	
Vyse "ice"		88 KIAS	
VCRZ CLB		90 кіаз	

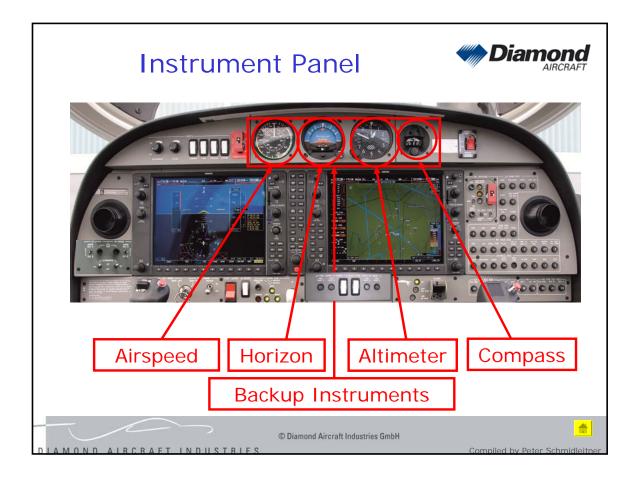


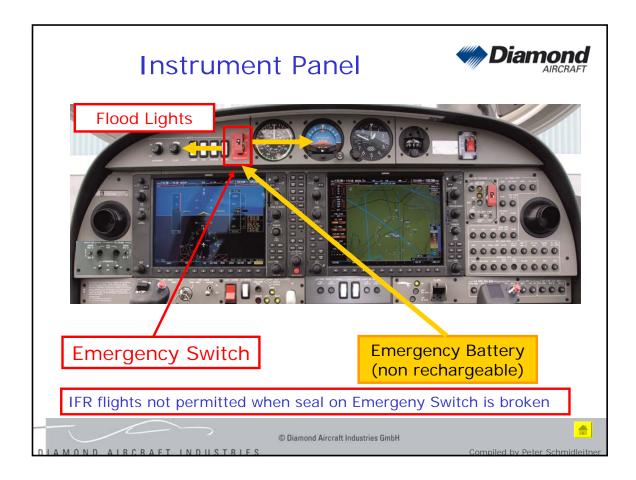


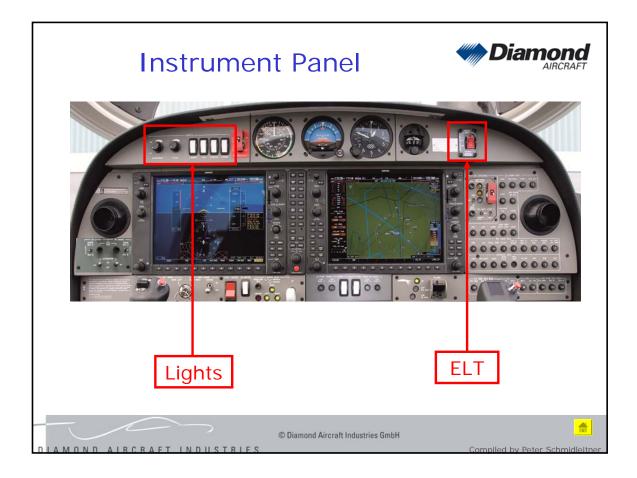




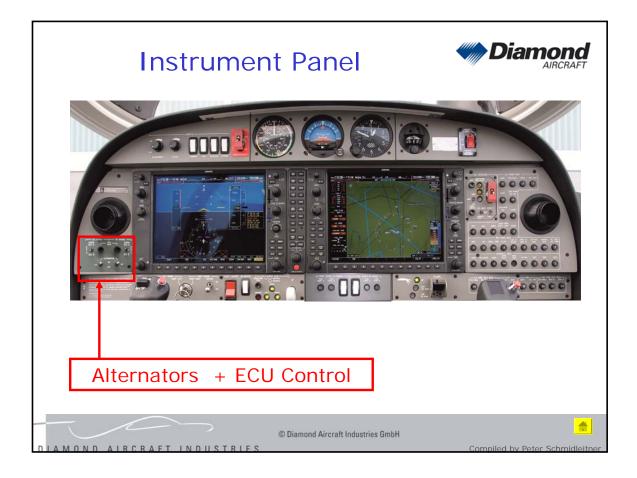


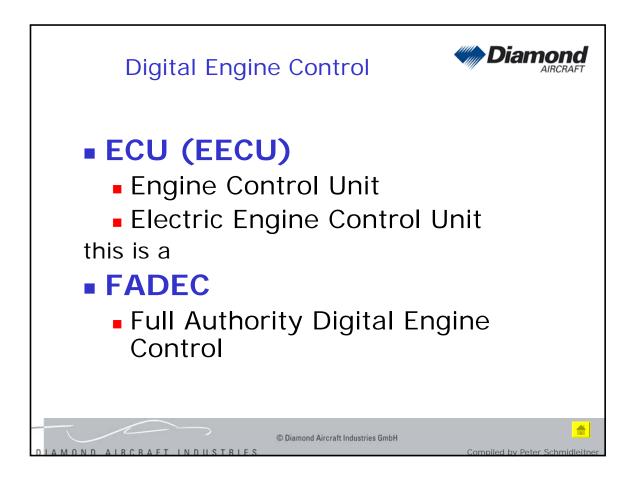


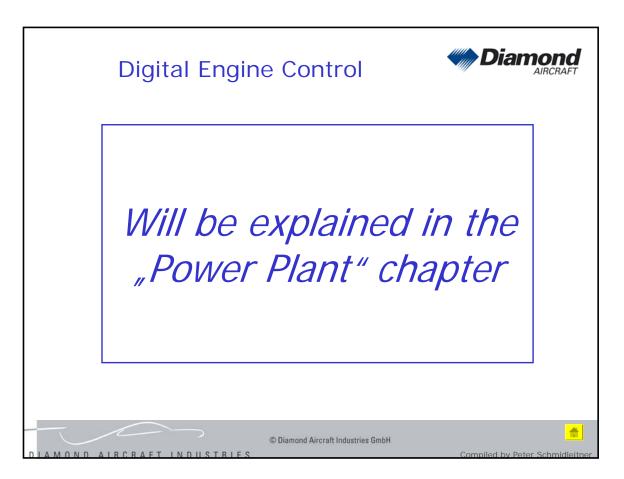


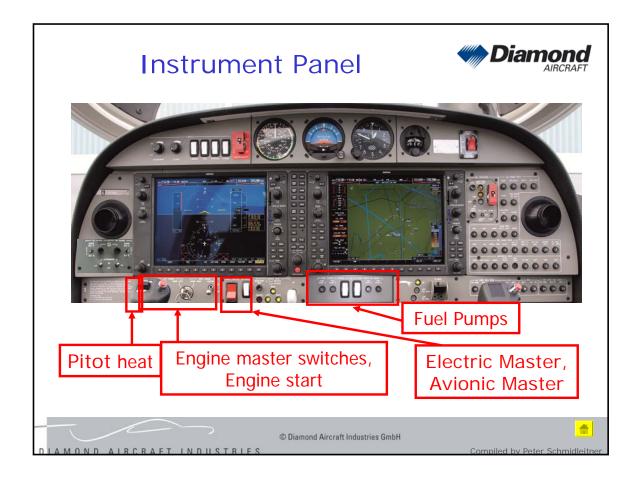


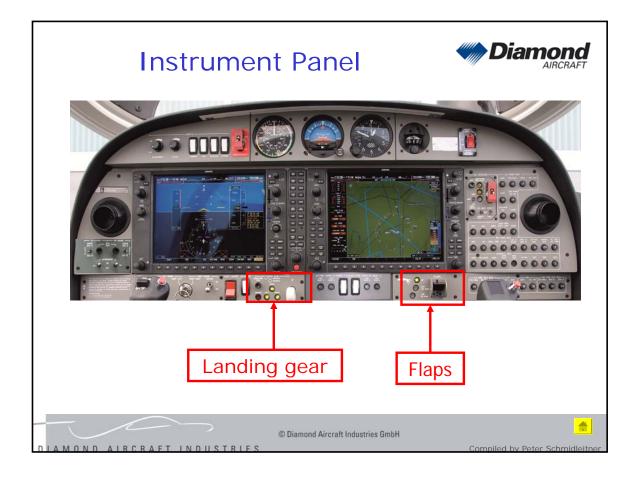


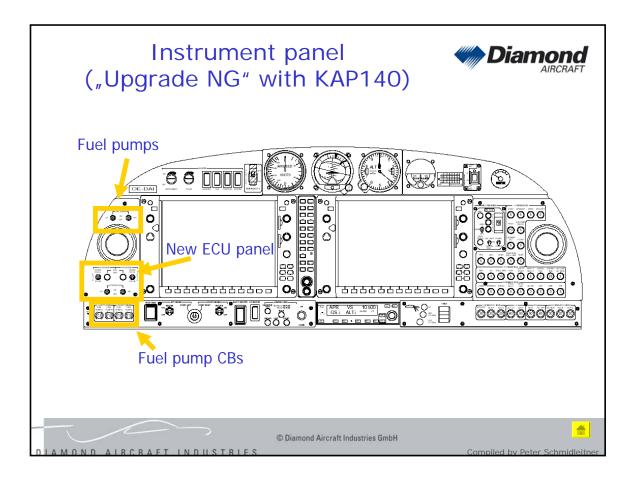




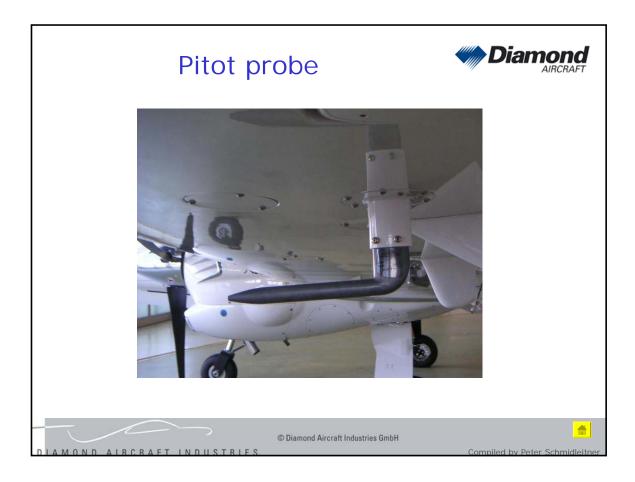


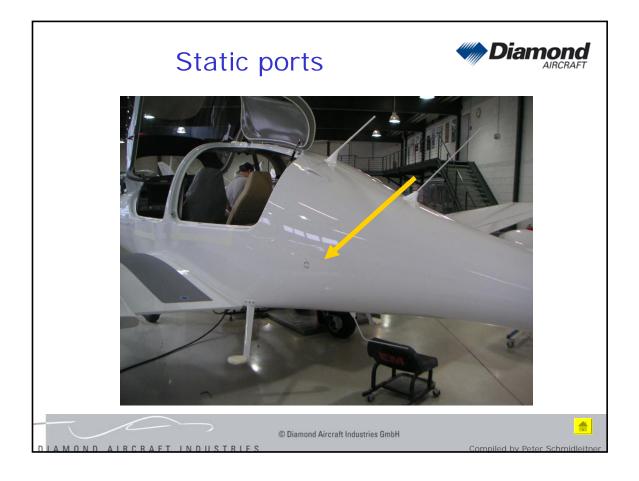






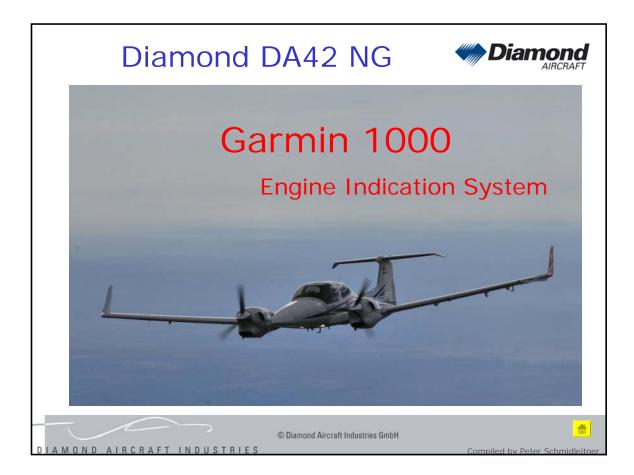


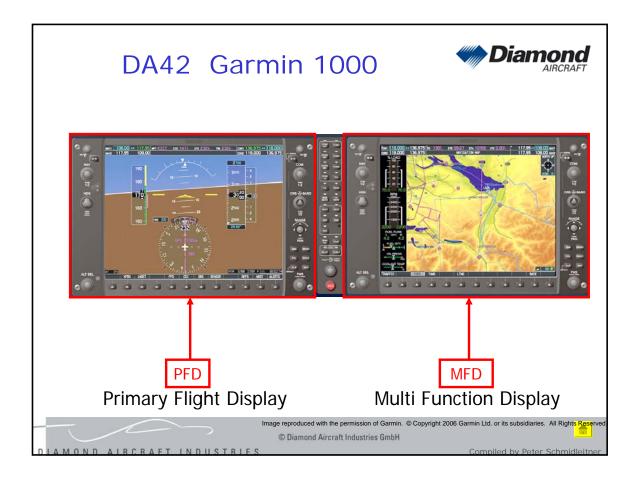


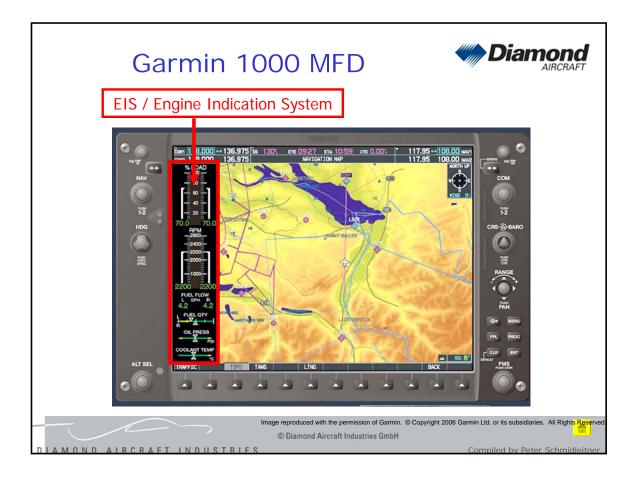


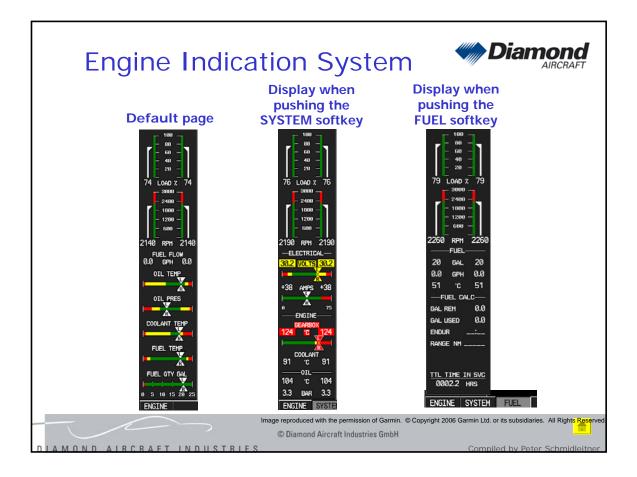


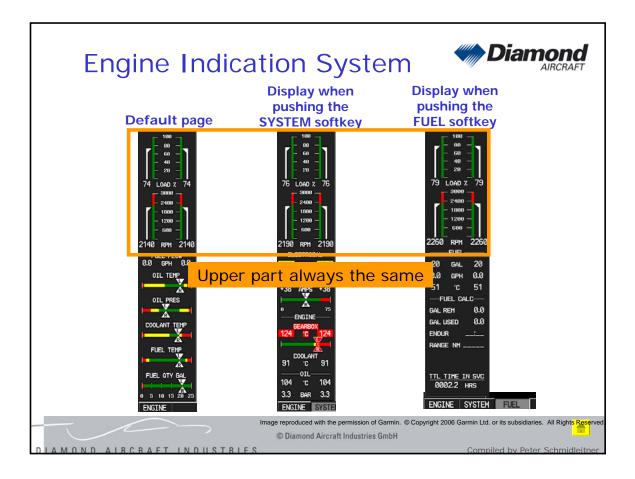


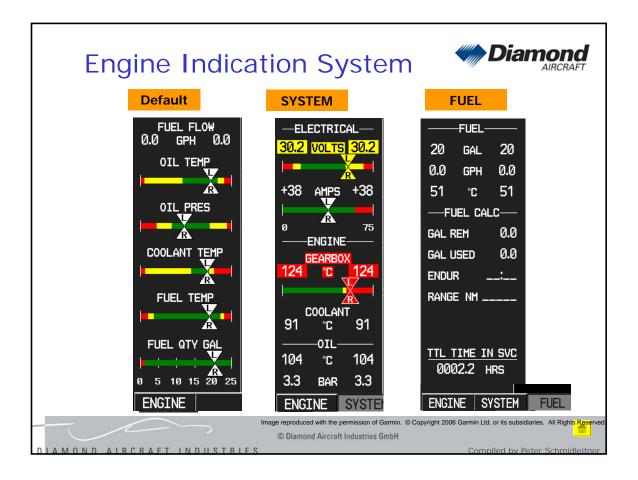


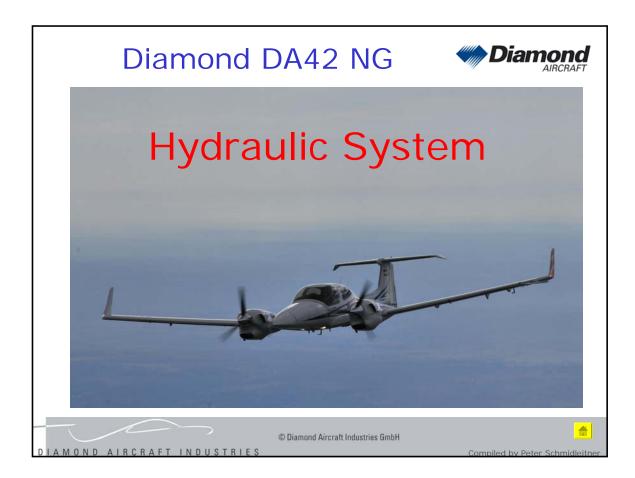


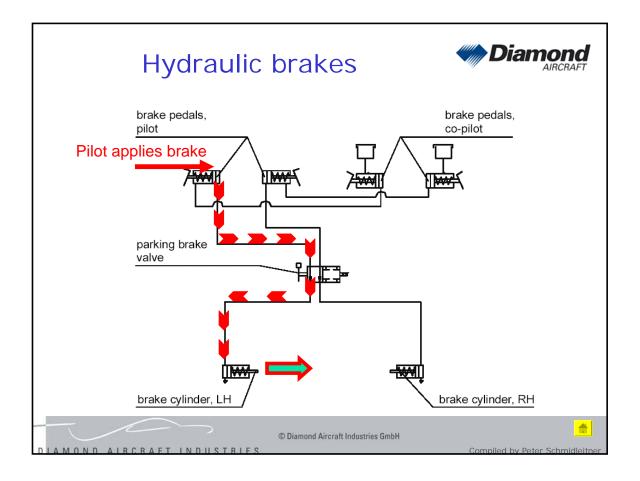


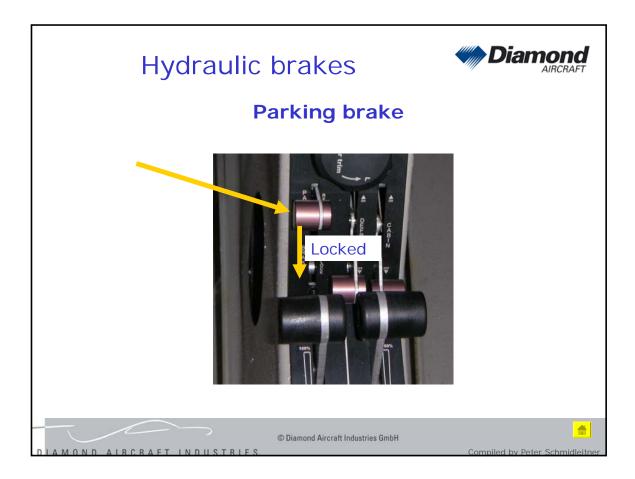


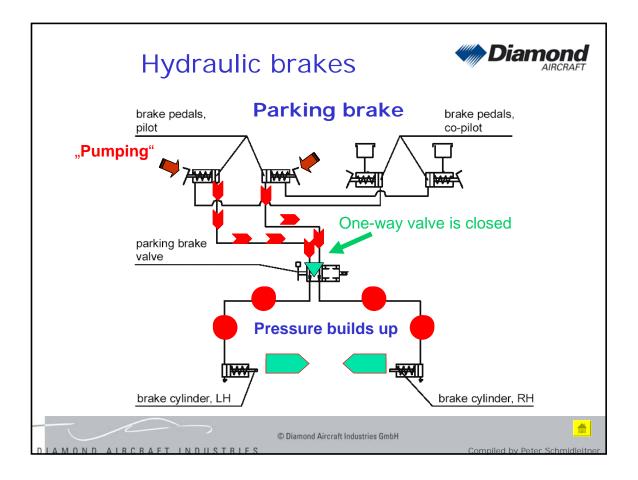




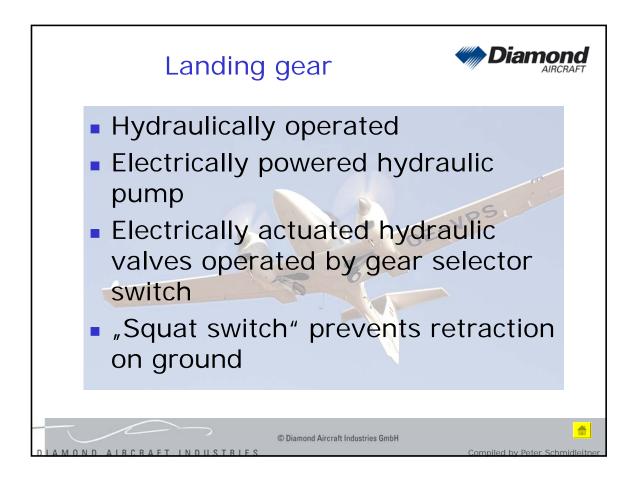




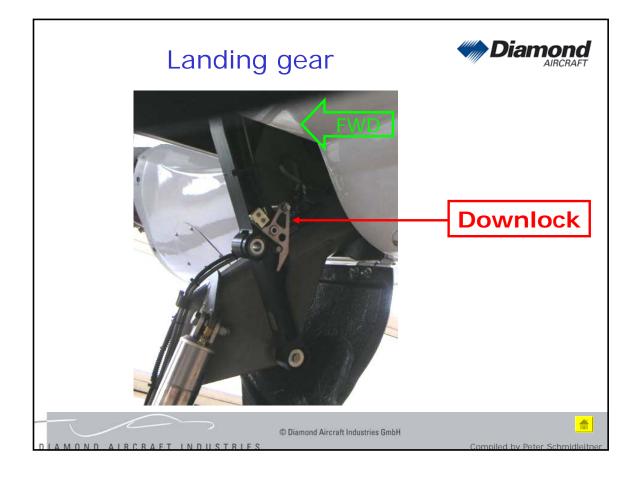


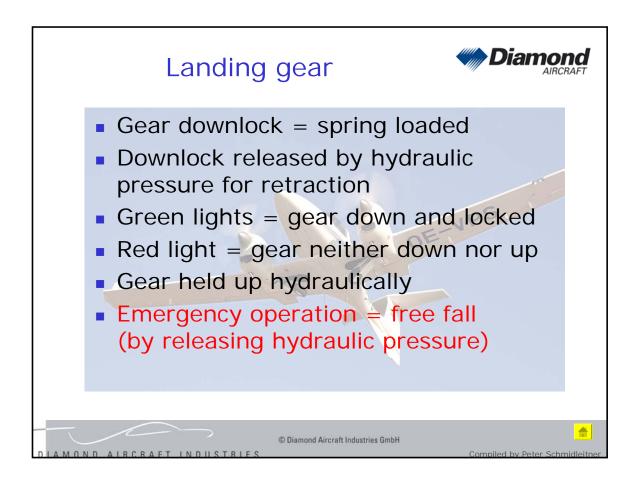


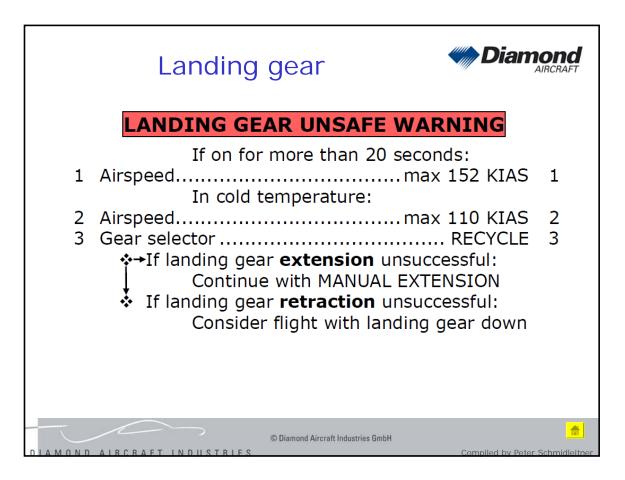






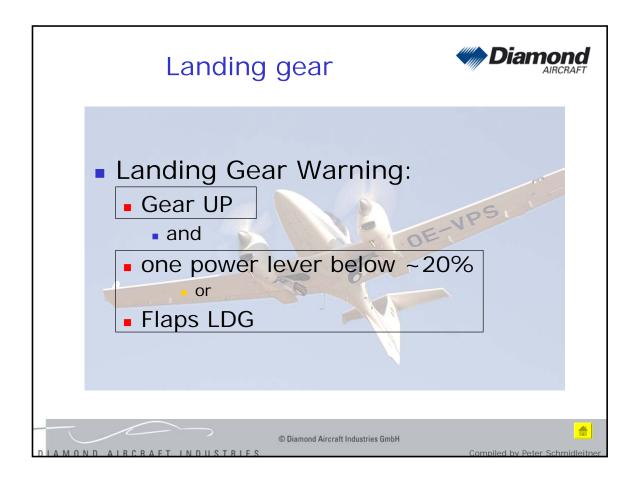


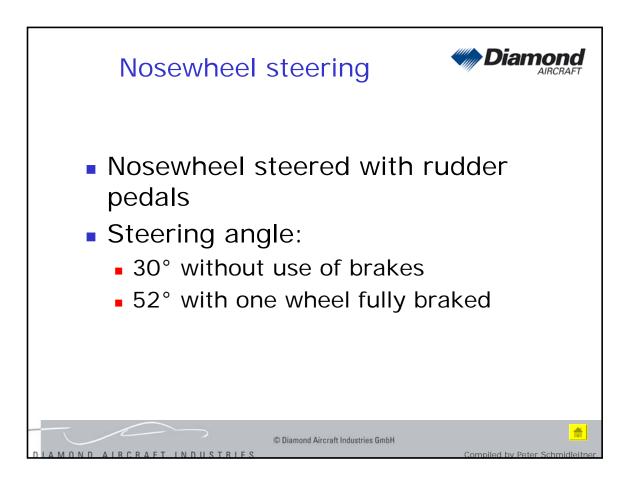




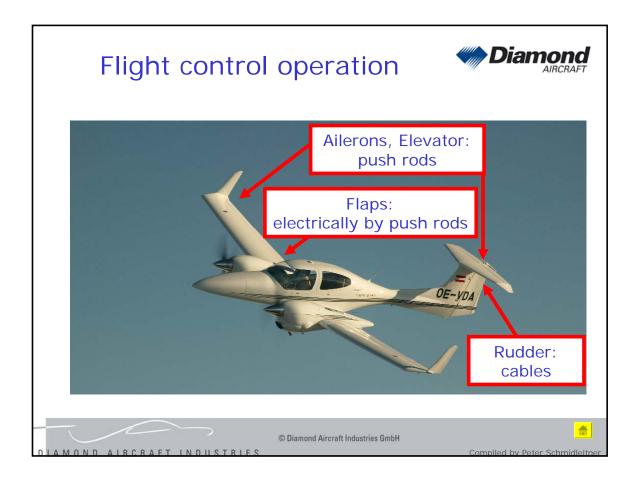


	Landing gear	ond RCRAFT
	MANUAL EXTENSION OF LANDING GEAR	
1	Airspeed max 152 KIAS	1
2	Gear indicator lightsTEST	2
3		3
4	Bus voltage CHECK NORMAL	4
5	Circuit breaker CHECK	5
6	Gear selectorDOWN	6
7	Manual extension handle PULL If necessary	7
8	Airspeed max 110 KIAS Apply moderate yawing	8
9	Gear indicator lightsCHECK 3 GREENS	9
$\overline{}$	© Diamond Aircraft Industries GmbH	



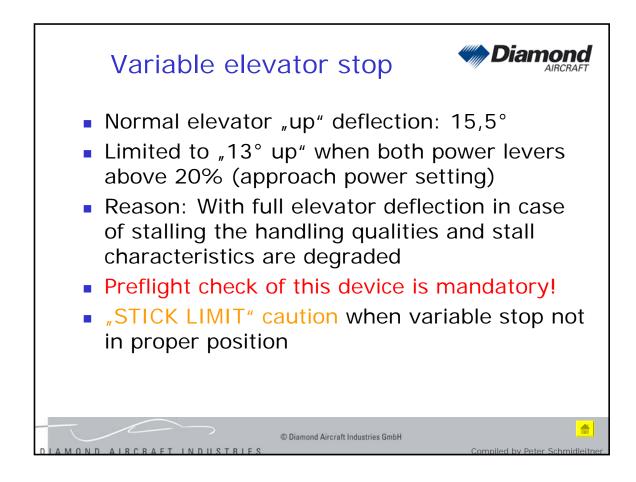


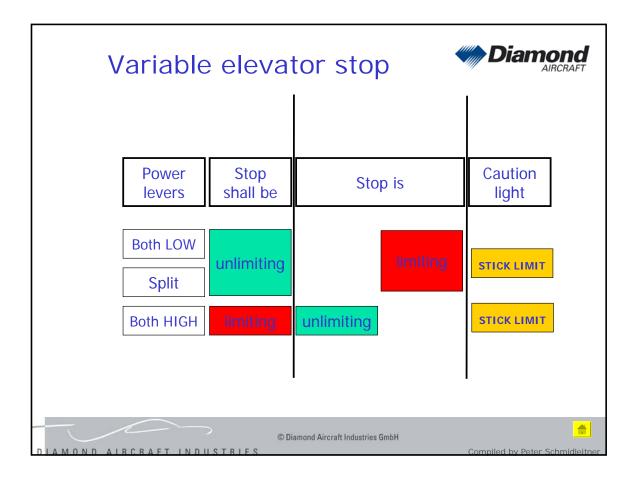


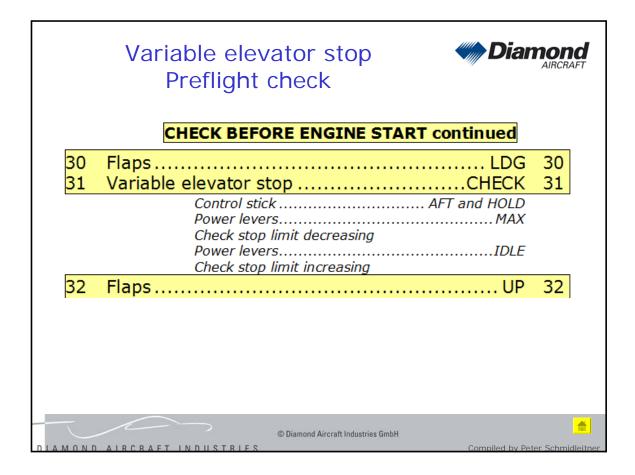


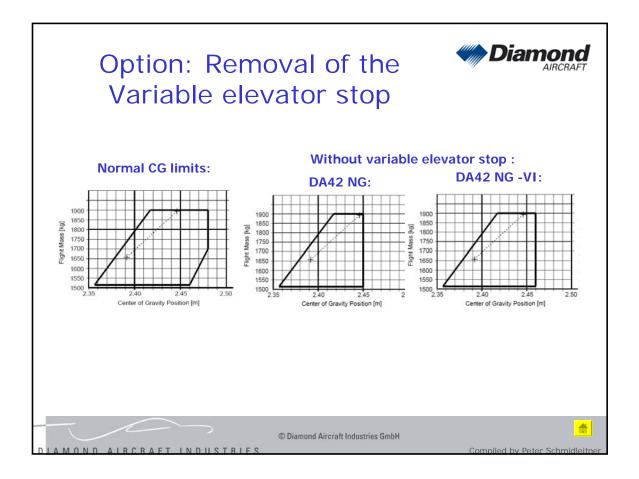




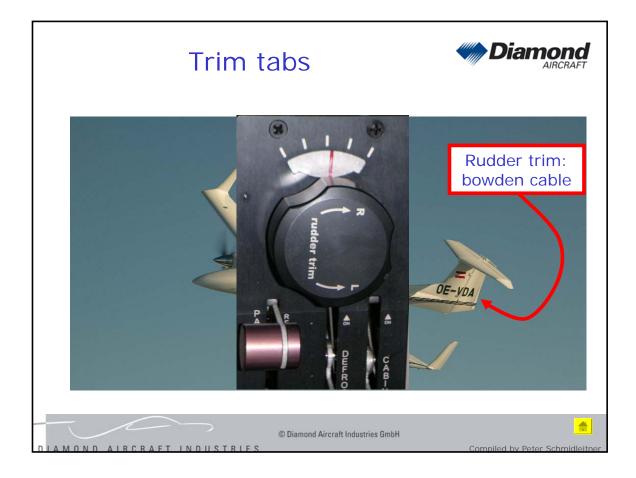


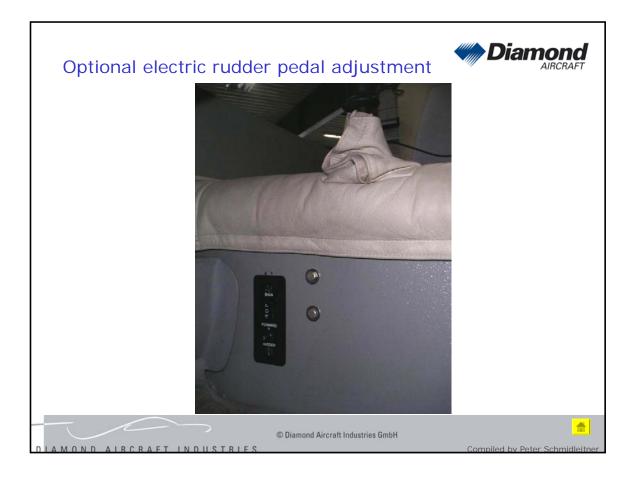


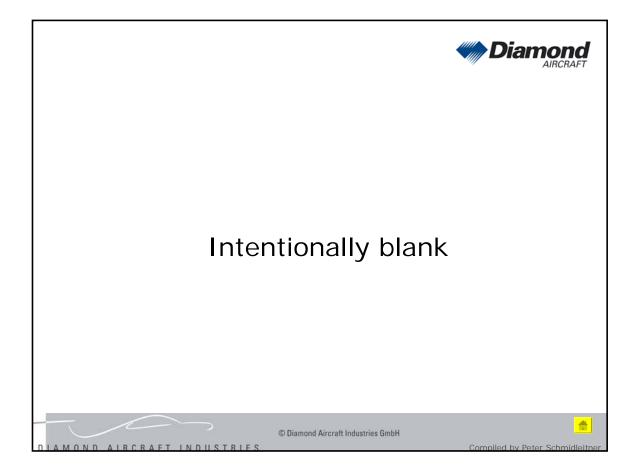




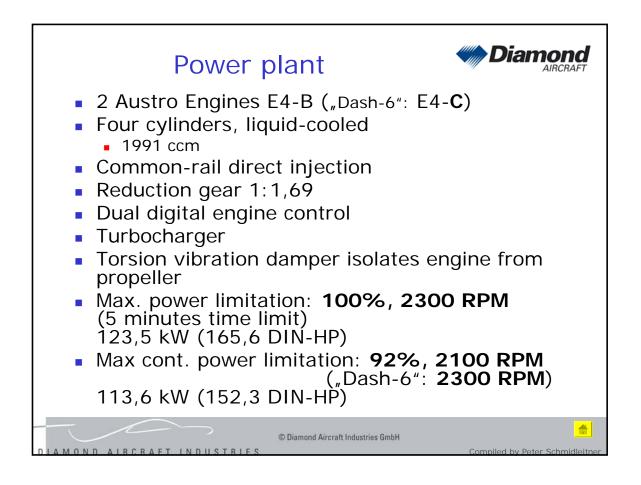


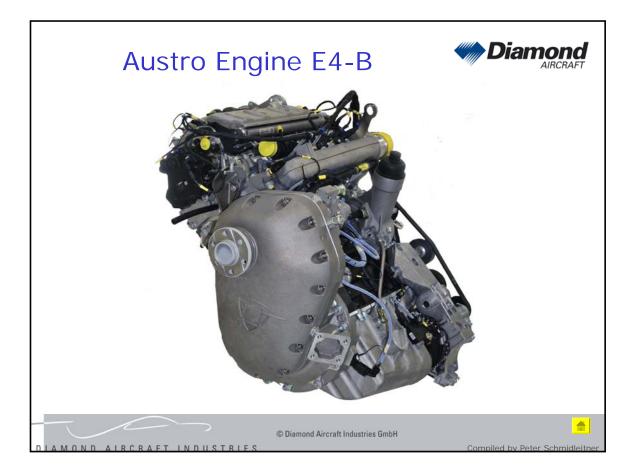


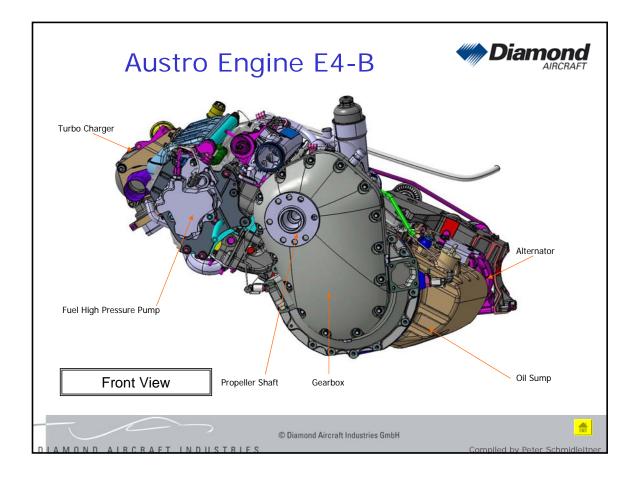


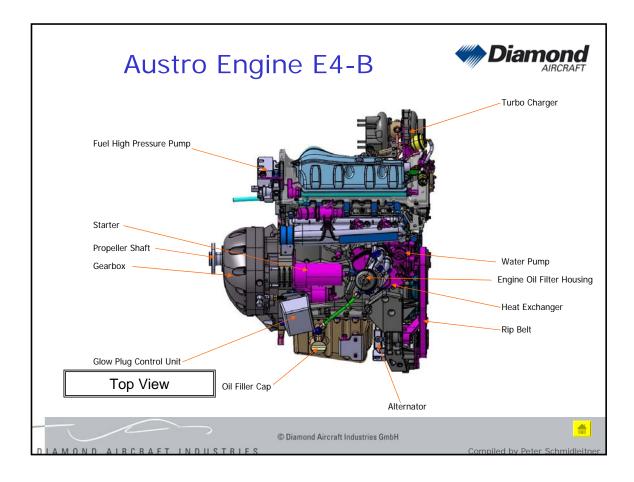


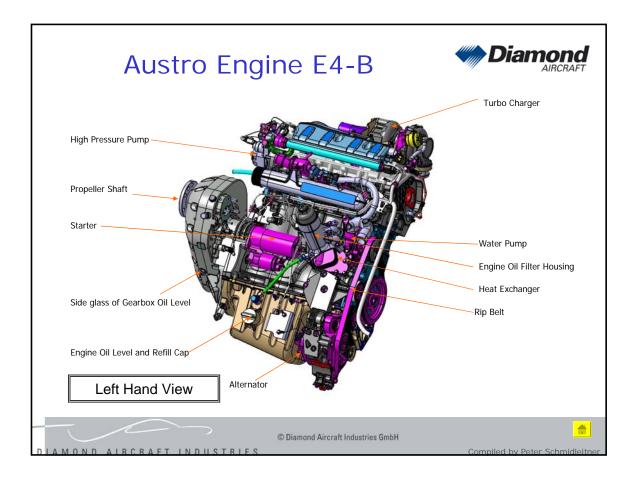


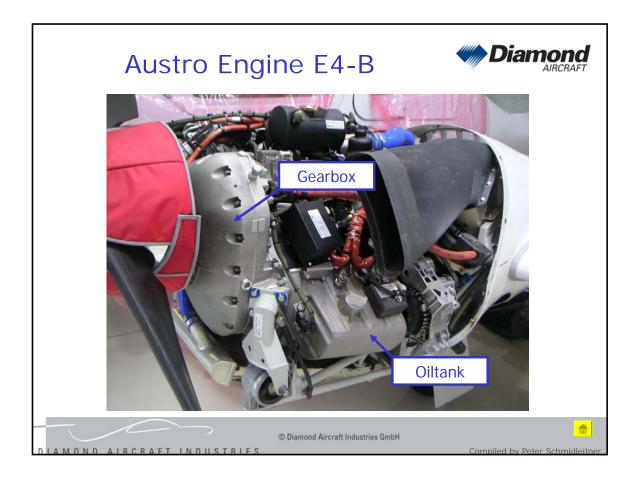




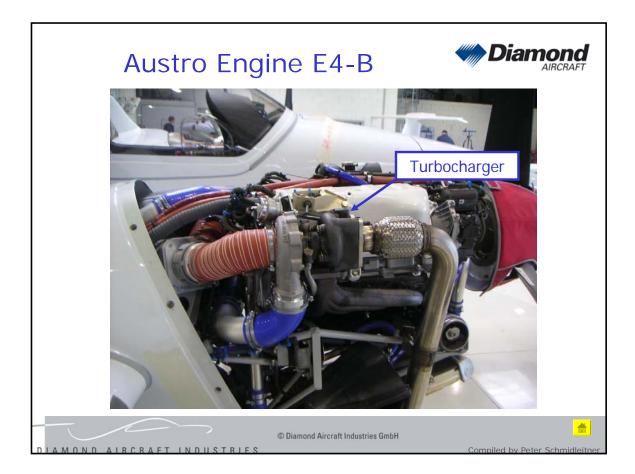


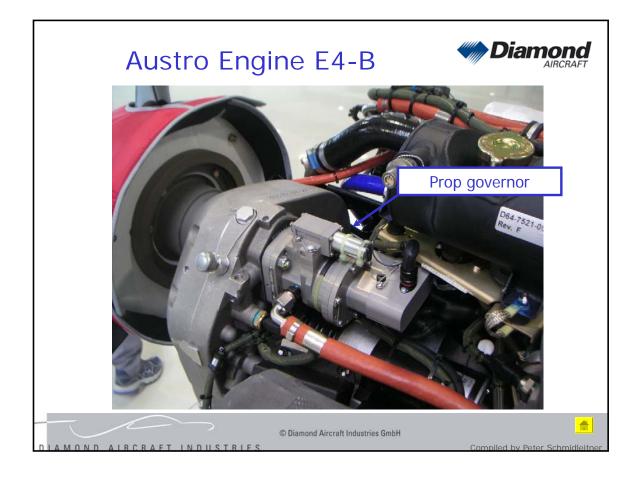


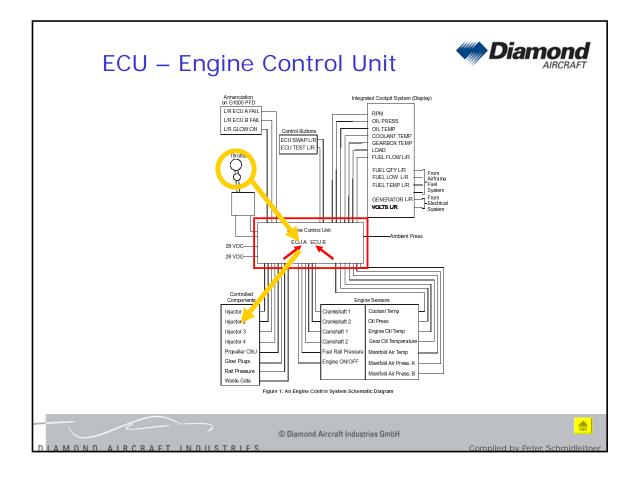


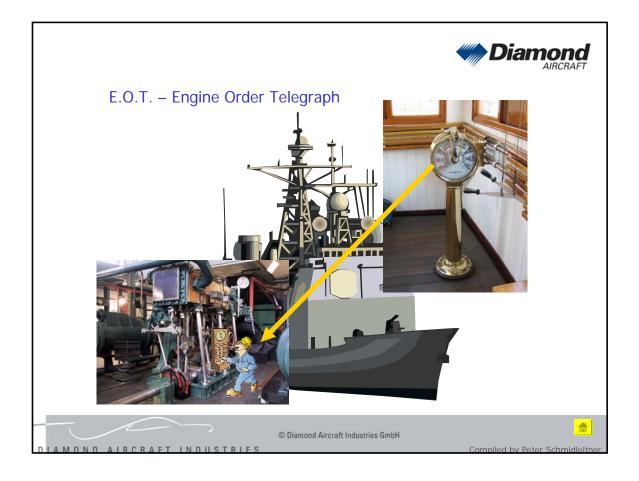


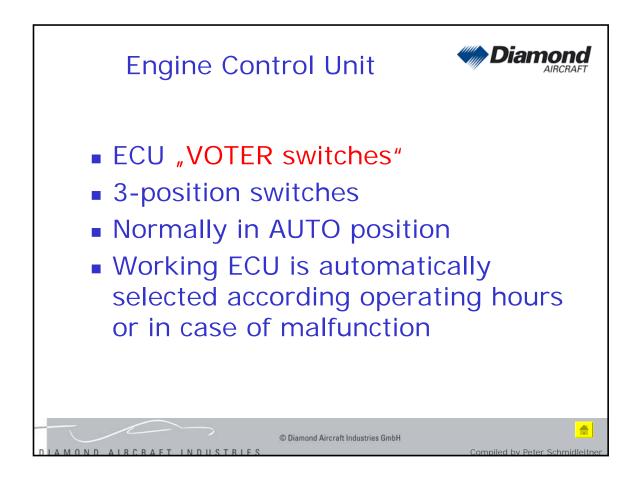




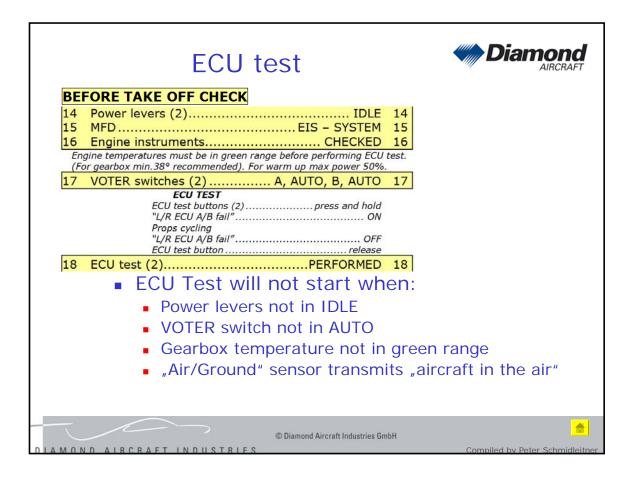


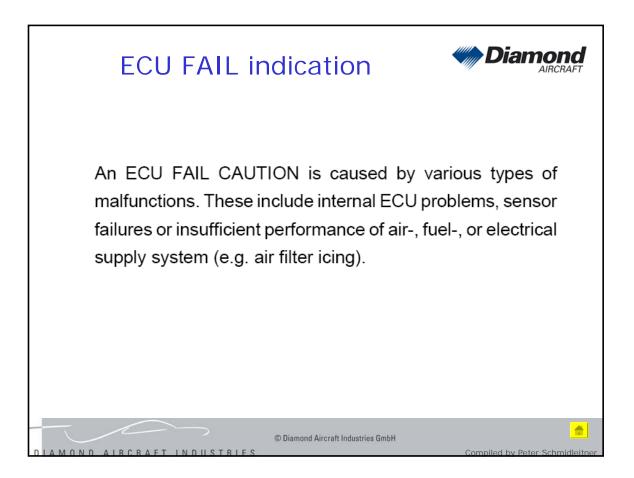


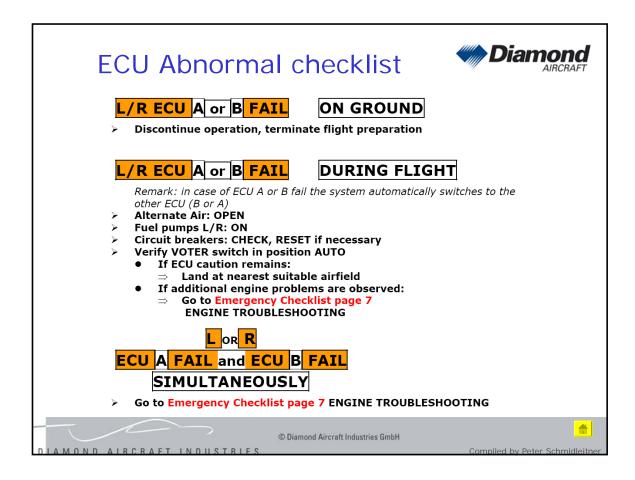


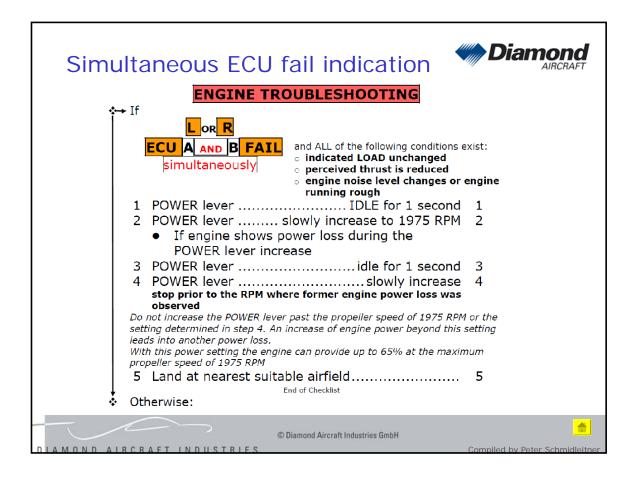


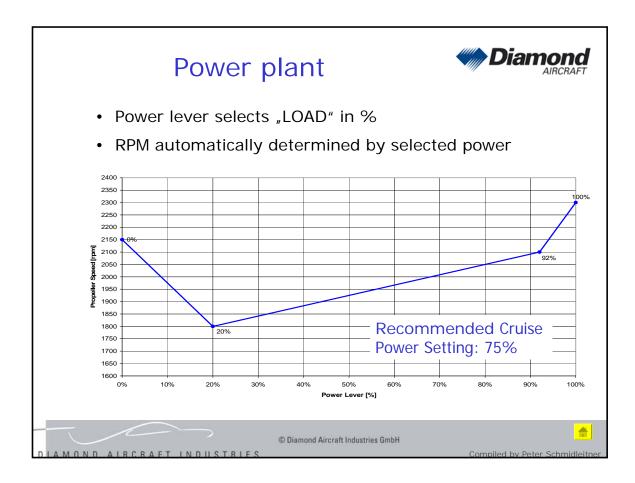


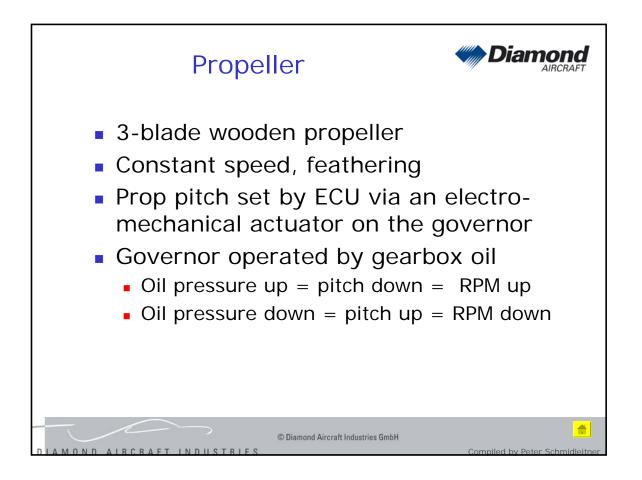


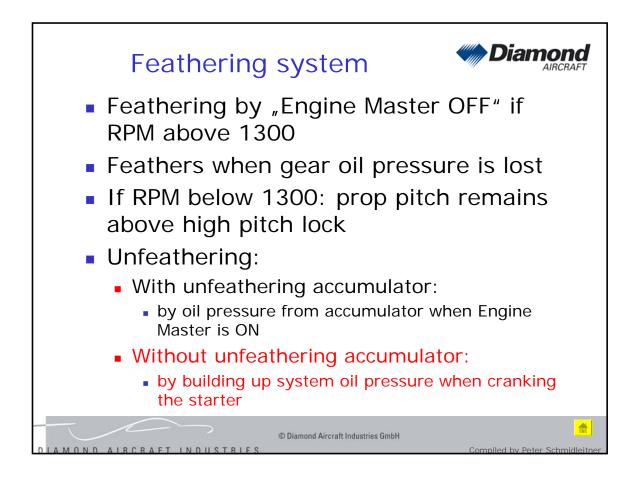


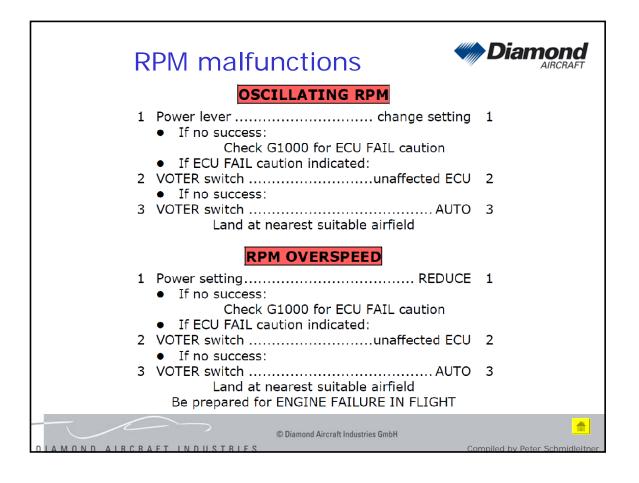


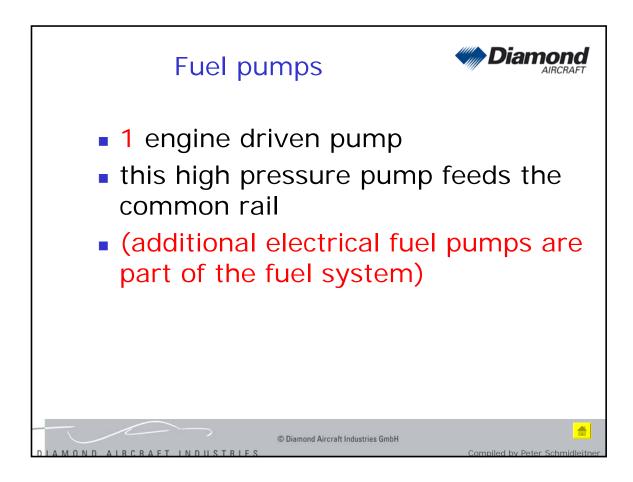


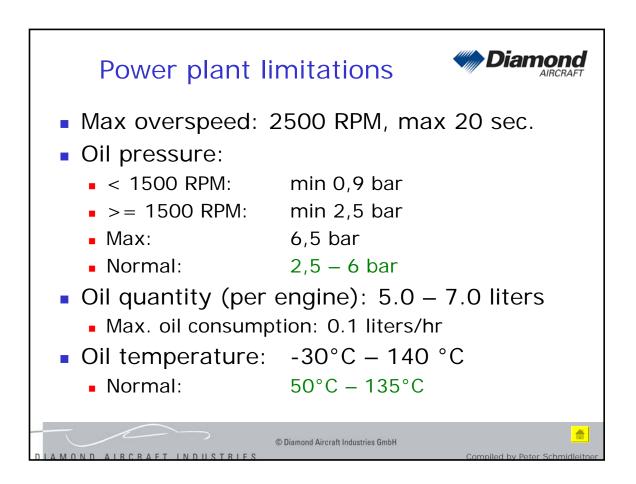


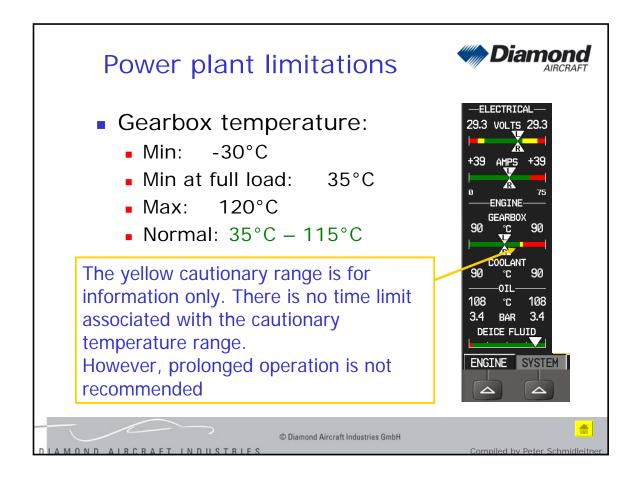


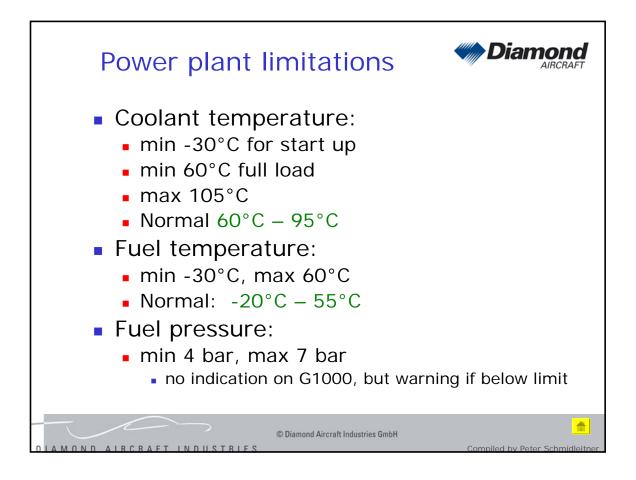


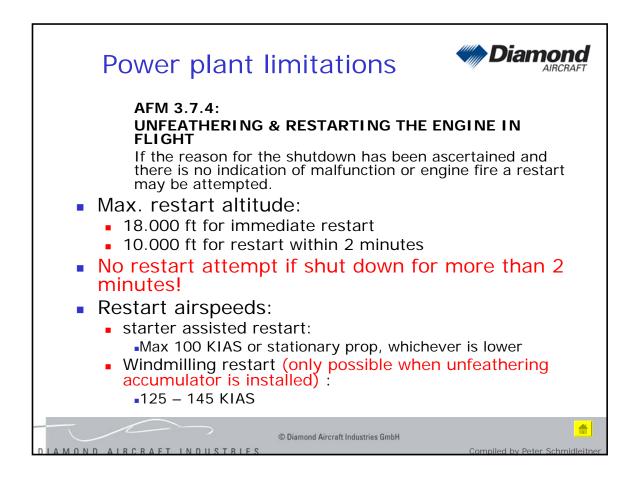


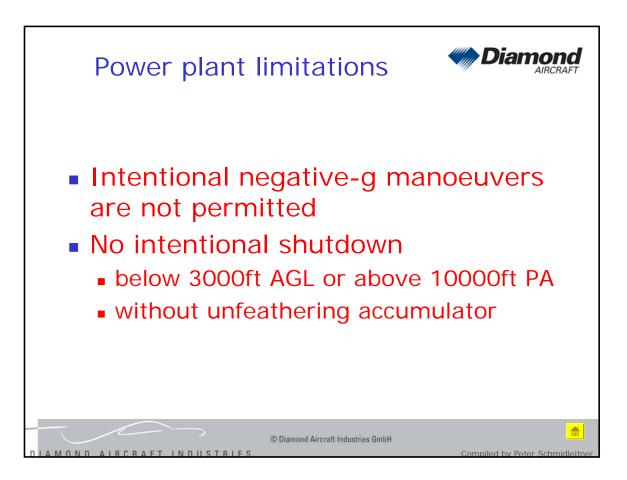


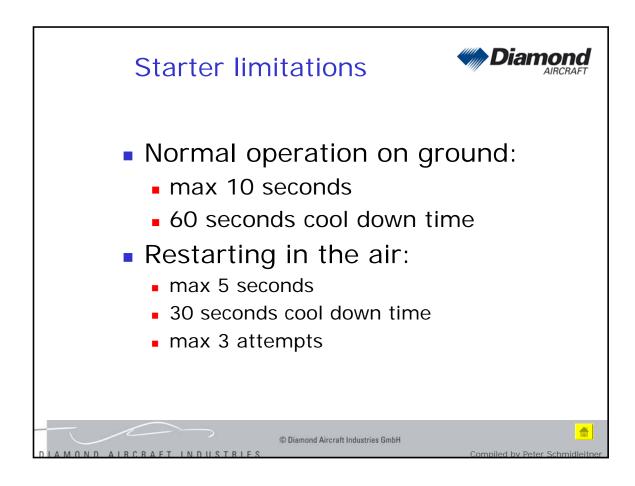


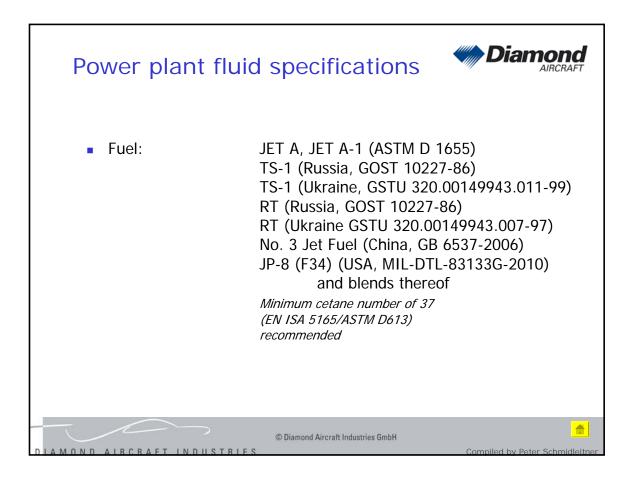


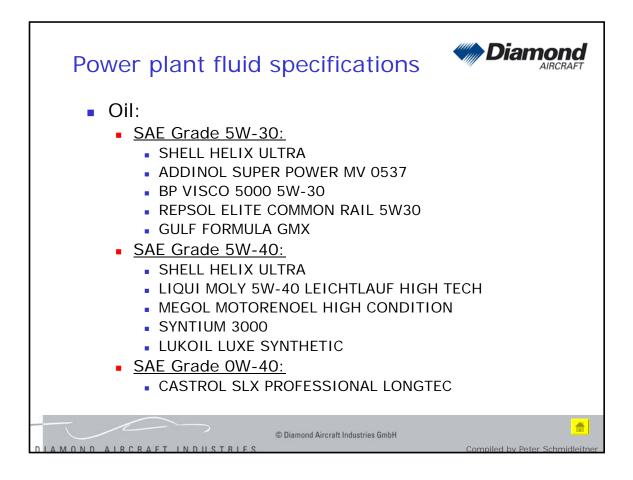


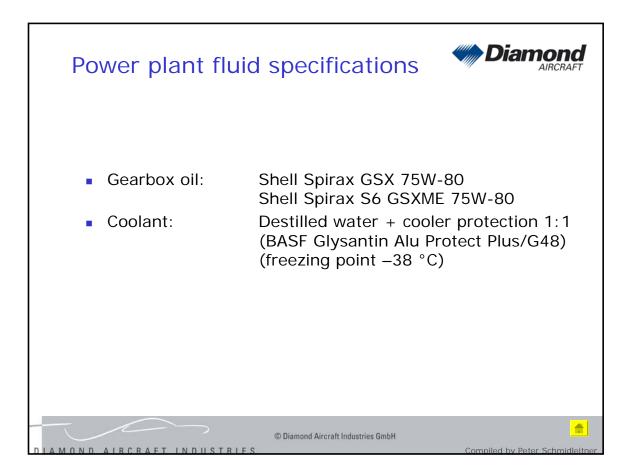




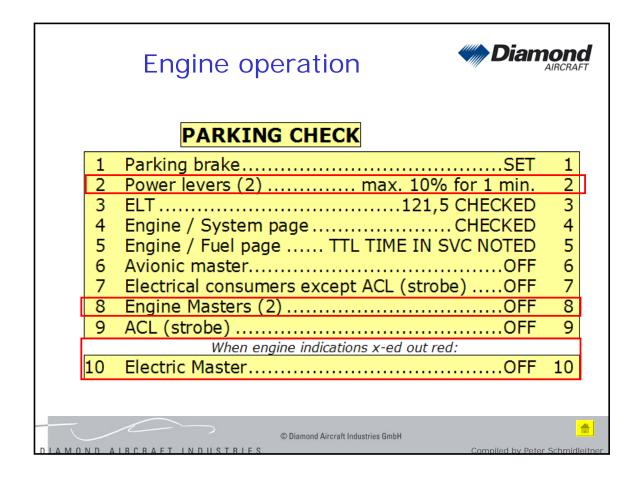


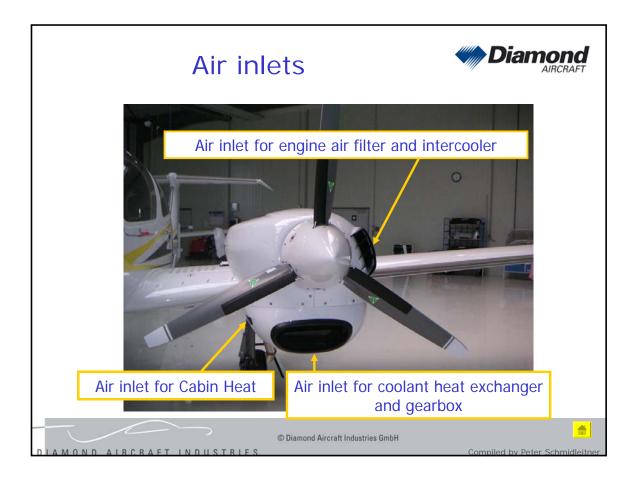


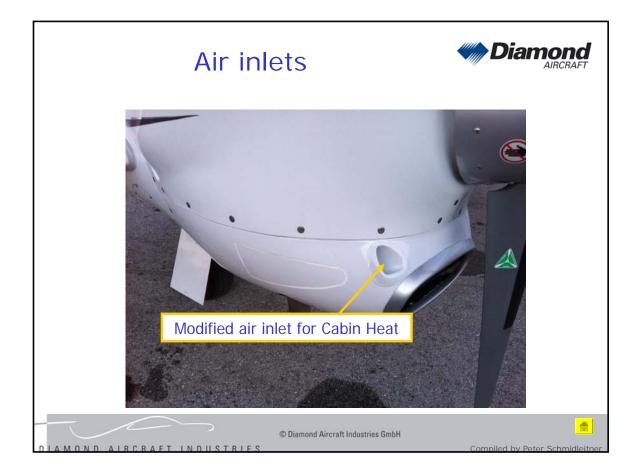


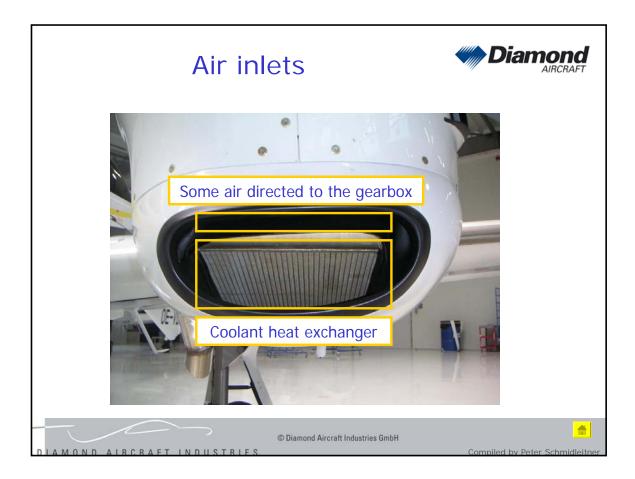


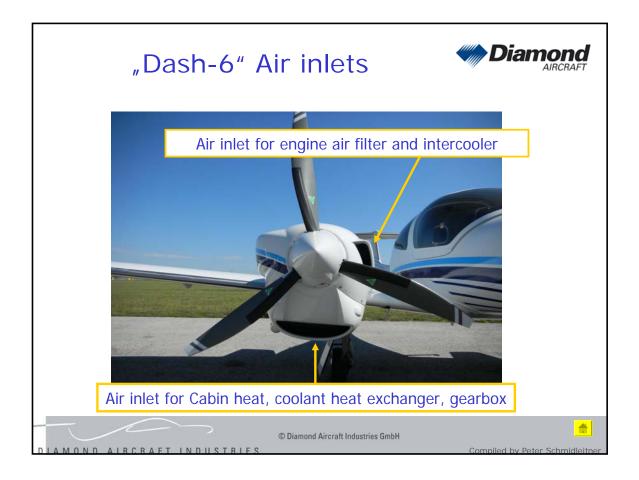
	Engine operation											
C	HECK A	FTE	RE	NG	INE	ST	AR1	Γ				
16 17	Engine te Parking b	-									16 17	
Max power 50% until engine temperatures in green range End of Checklist												
B	EFORE		,						line-	<u> </u>	_	
Available power check (see pg.10) PERFORMED Available Power Check: 10 sec. power MAX, RPM 2250 – 2300, min. load acc. table below												
	Altitude [ft]	-35°C	-20°C	-10°C	0°C	0AT 10°C	20°C	30°C	40°C	50°C		
		-35 C	-20 0	-10 C		100	97%	96%	93%	91%		
	2000		97%					96%	93%			
	4000		99% 97%						93%		1	
	6000		97%					96%	93%			
	8000			98%	98%	98%	96%	95%	92%		1	
	10000	98%	97%	97%	95%	94%	92%	89%				
LAMOND ALB	CRAFT INDU	STRIE		Diamond	Aircraft Ind	lustries Gm	ЬН		Compil	ed by Pe	ter Schmidleitn	



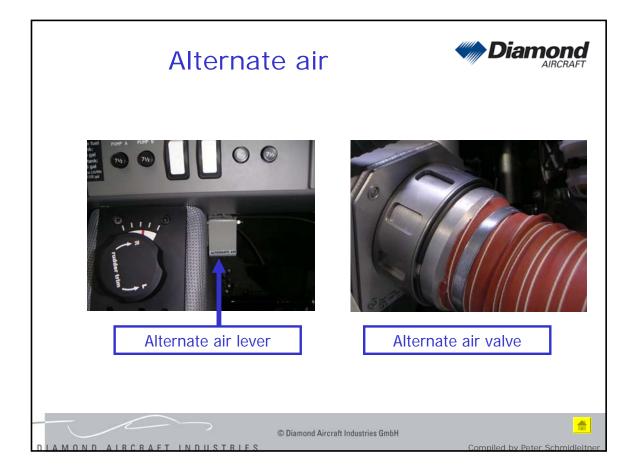


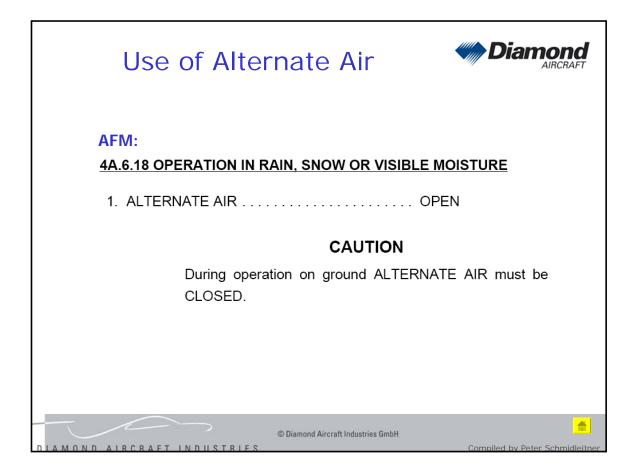


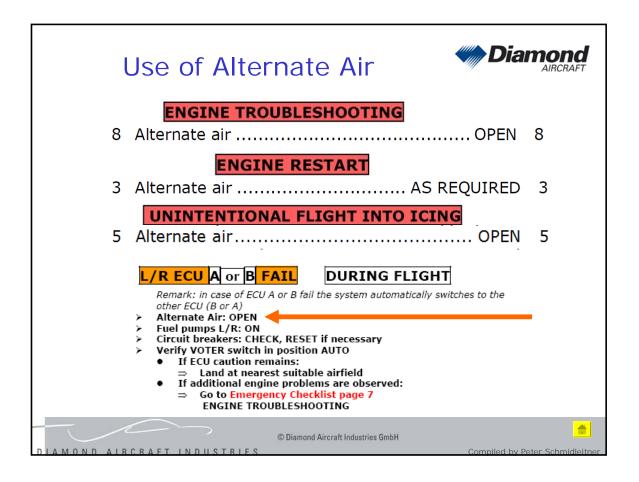


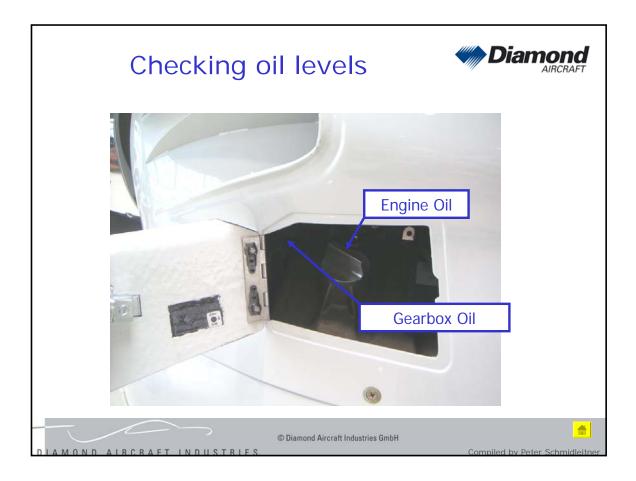


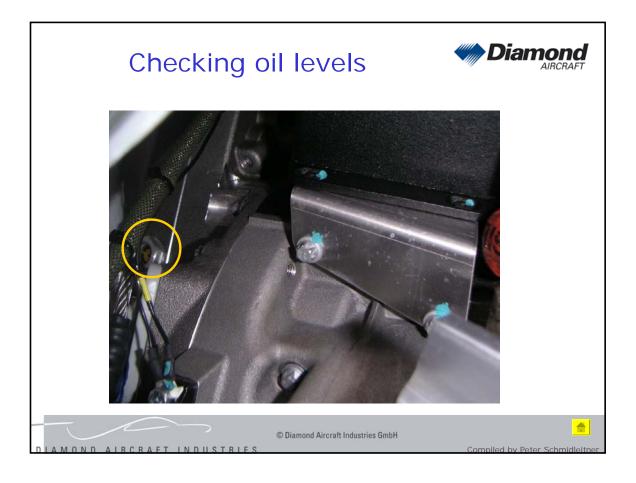




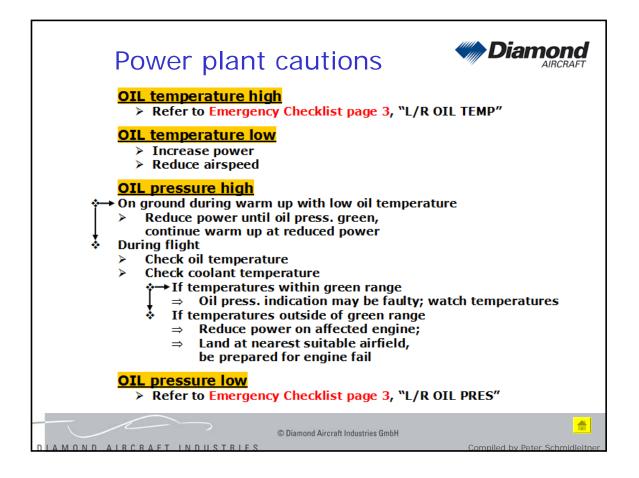


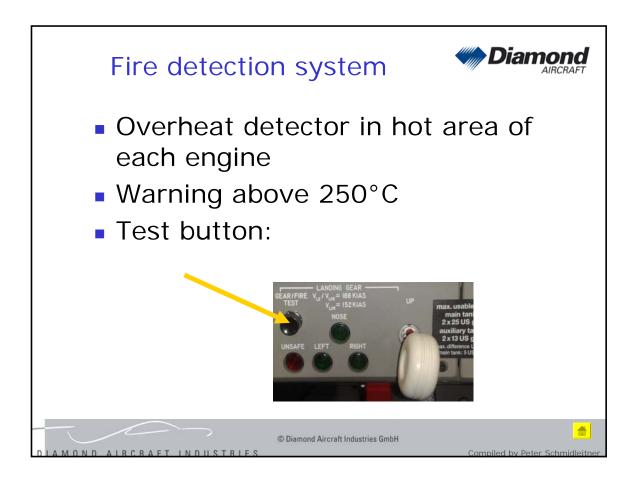


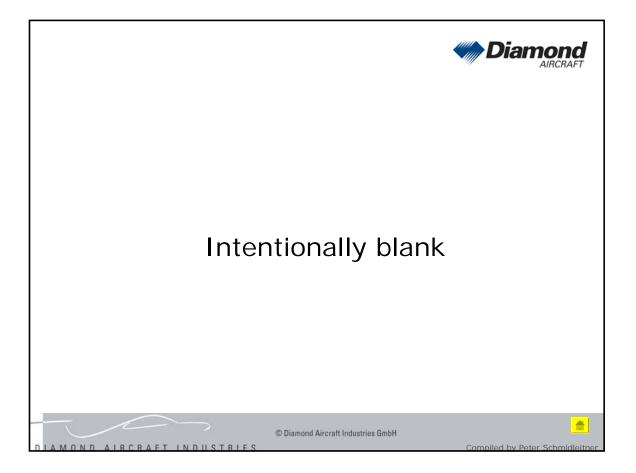




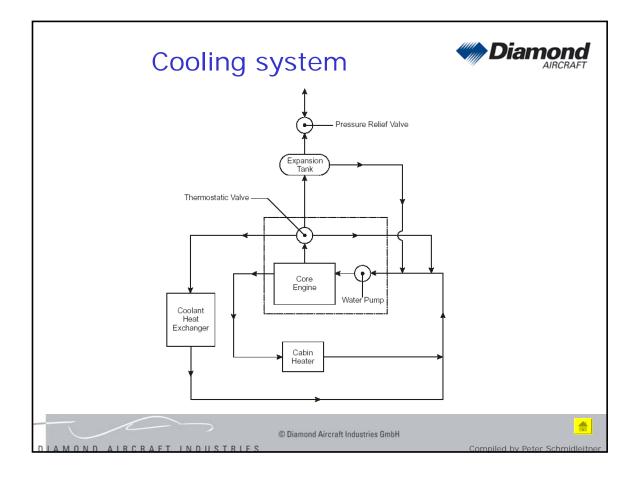
	Power plant warnings	
>	ROIL PRES Reduce power on affected engine Be prepared for loss of oil and an engine failure; land at nearest suitable airfield	
L /	ROILTEMP OILTEMPERATURE HIGH Check oil pressure → If oil pressure too low (outside green range): → A Reduce power on affected engine → Be prepared for an engine failure → If oil pressure in green range → Reduce power on affected engine → If oil pressure in green range → Reduce power on affected engine → If oil temperature not returning to green range: → Be prepared for an engine failure; →	
>	R GBOX TEMP GEARBOX TEMPERATURE HIG Reduce power on affected engine Increase airspeed Increase airspeed If gearbox temperature still in red range: ⇒ Land at nearest suitable airfield ⇒ Be prepared for an engine failure	GH
DIAMONDA	© Diamond Aircraft Industries GmbH	Compiled by Peter Schmidleitner

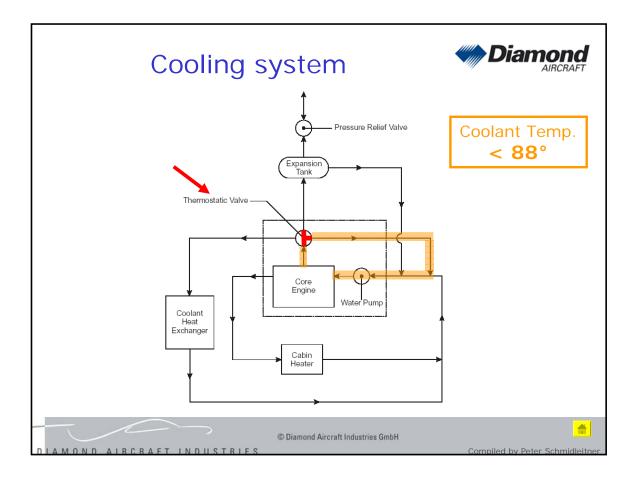


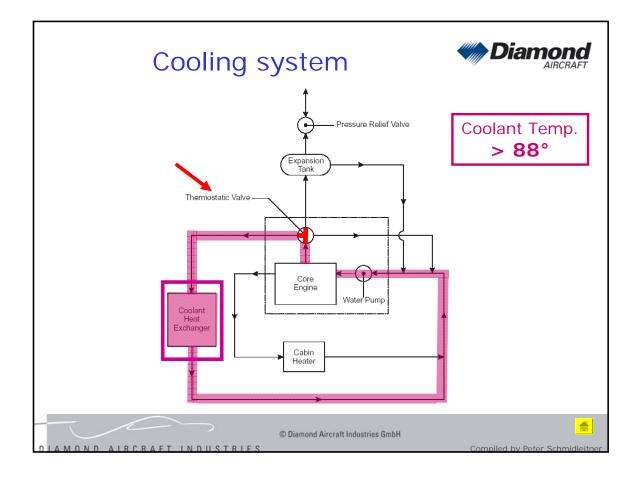


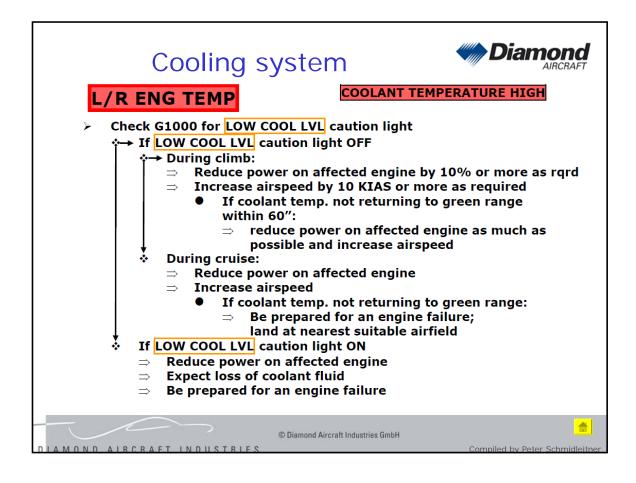


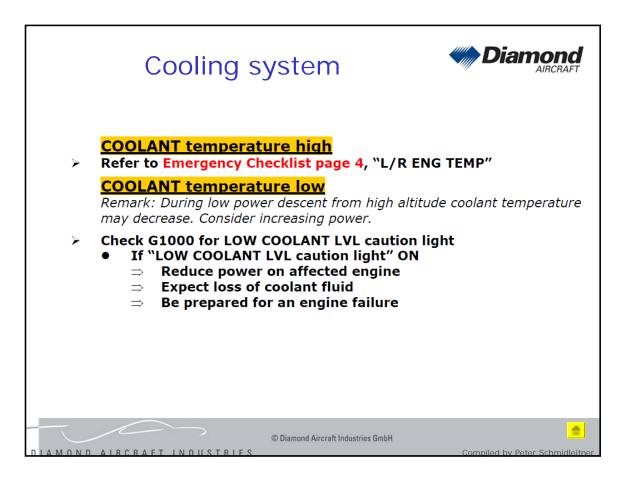


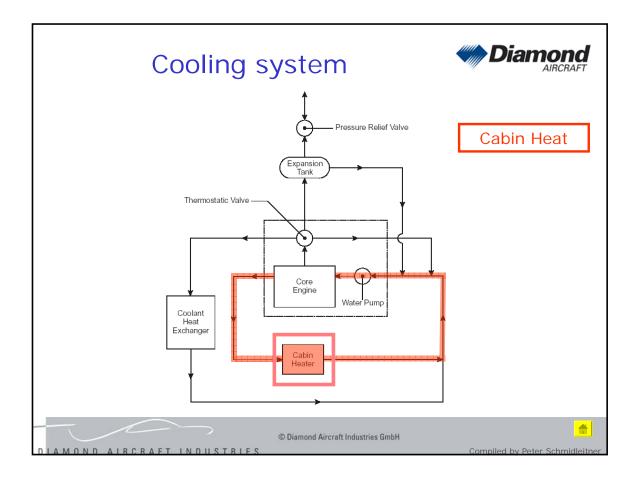


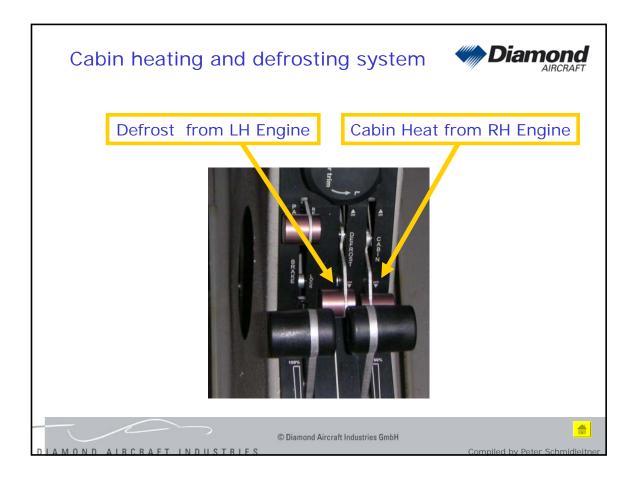


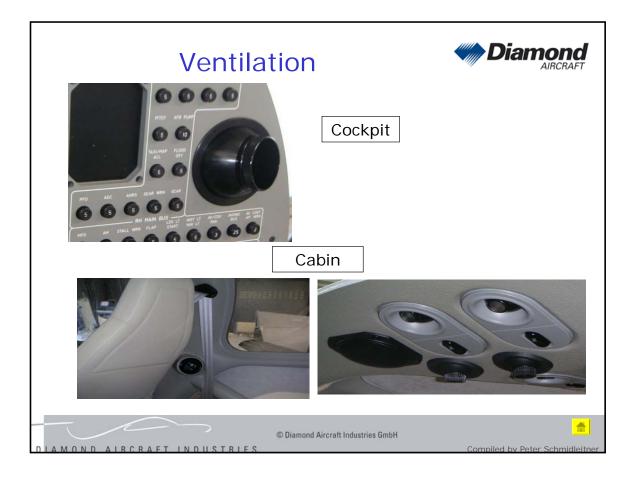


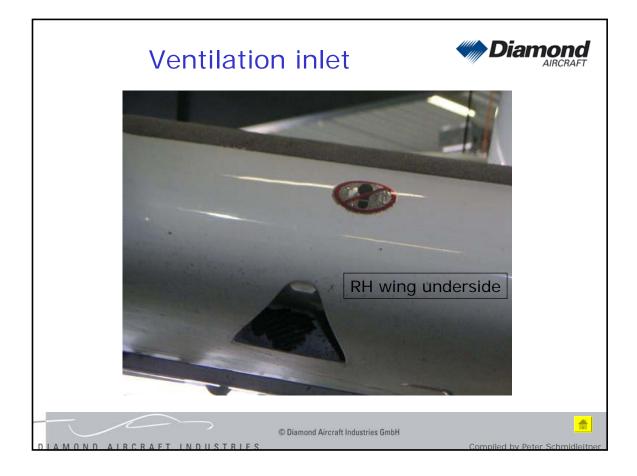


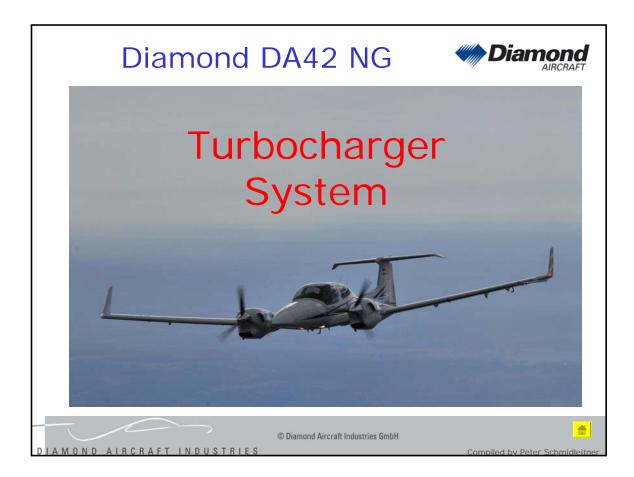


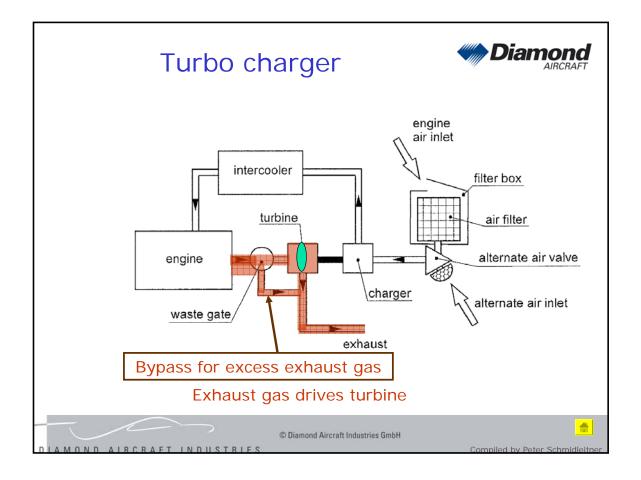


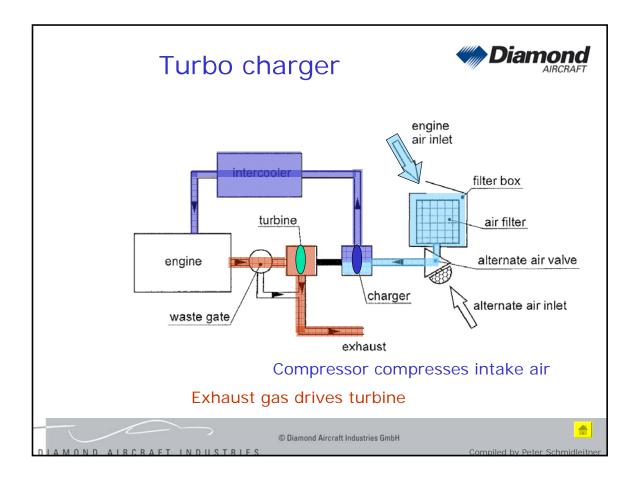


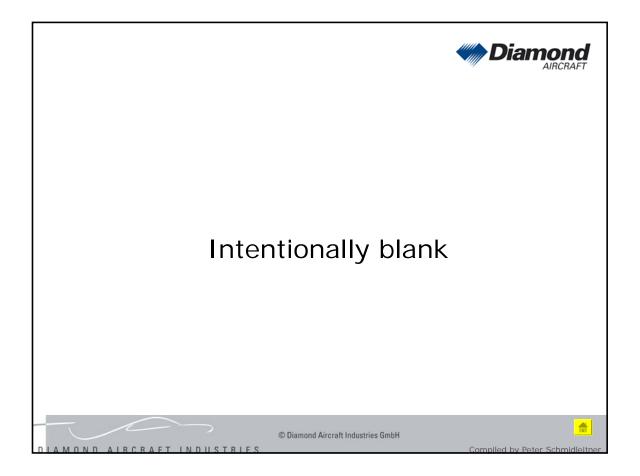




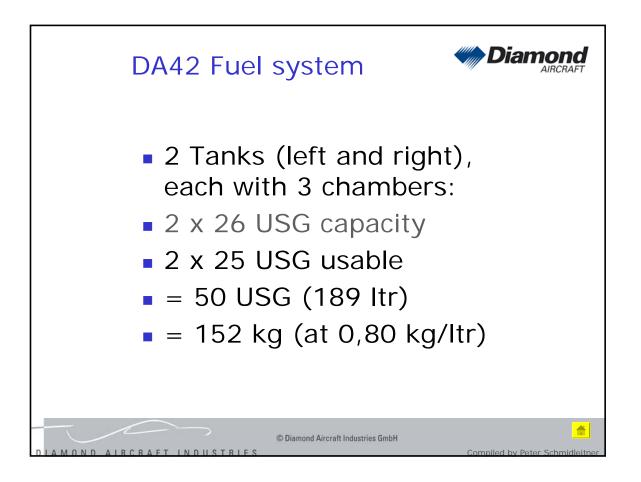


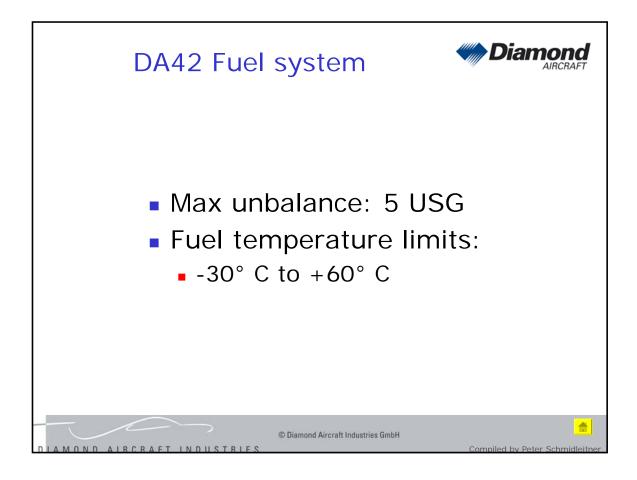


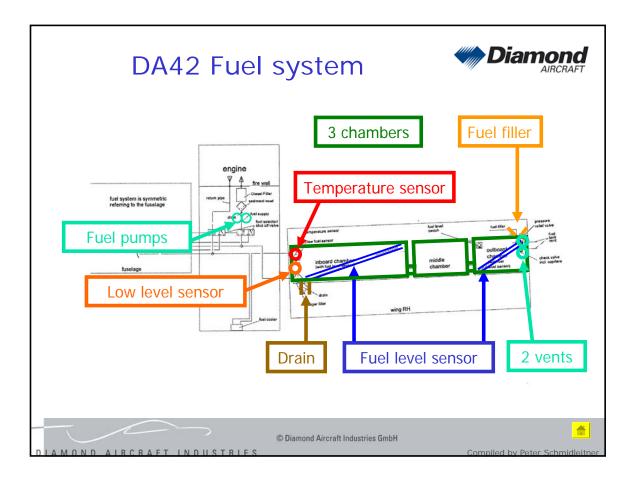


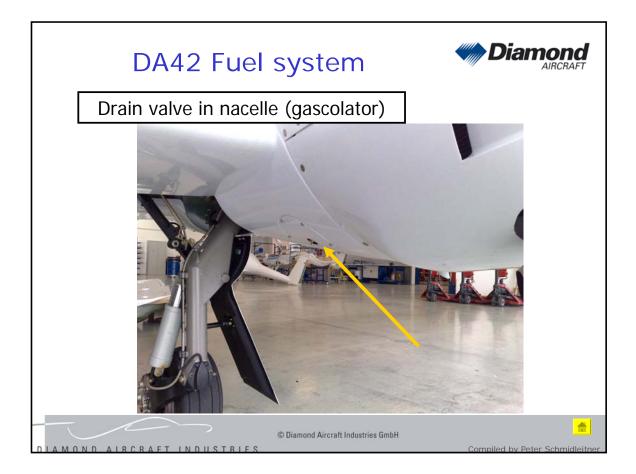


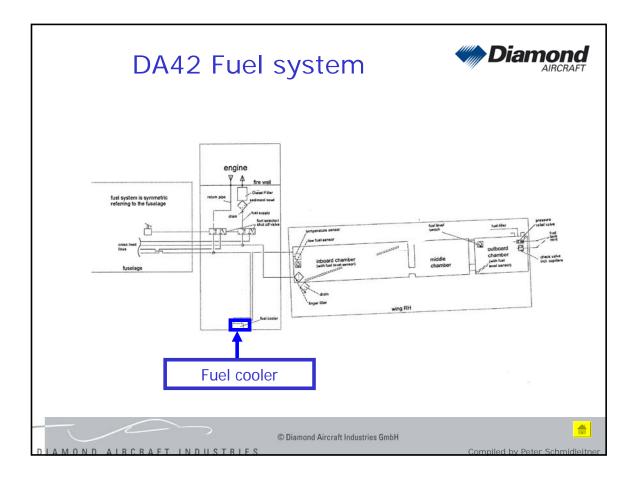


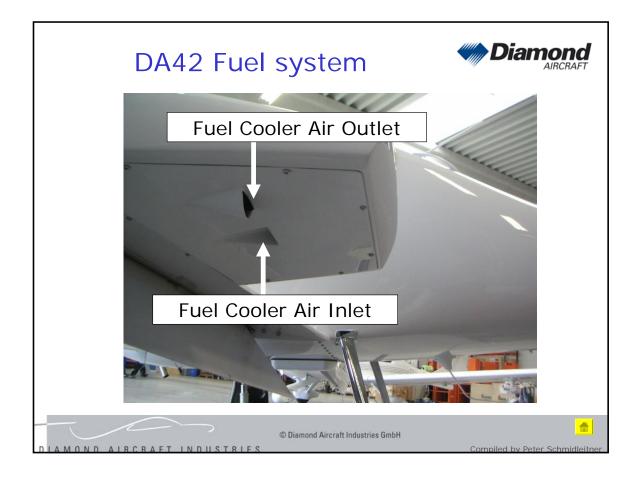


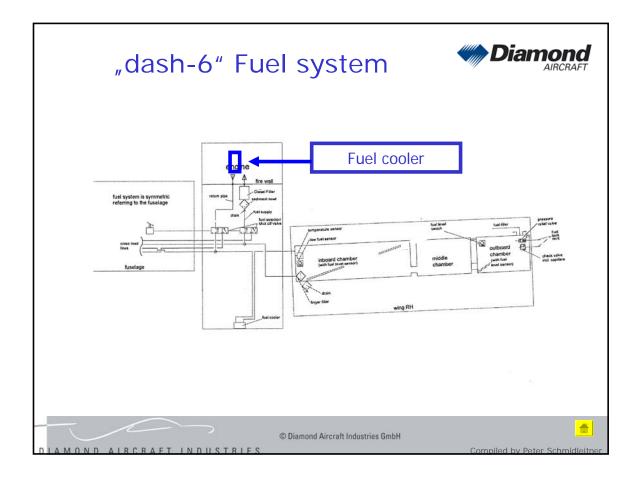


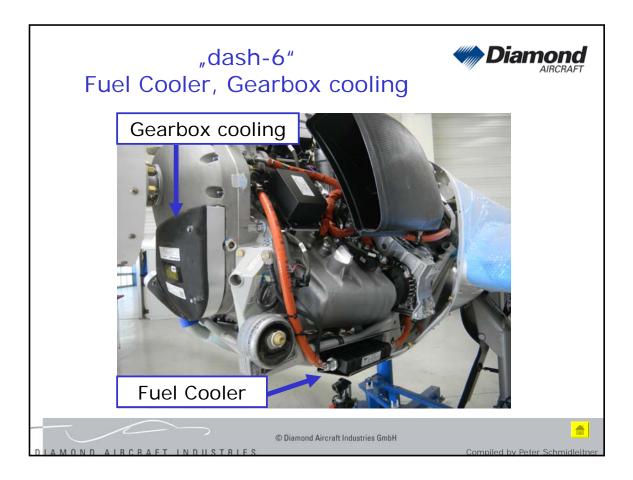


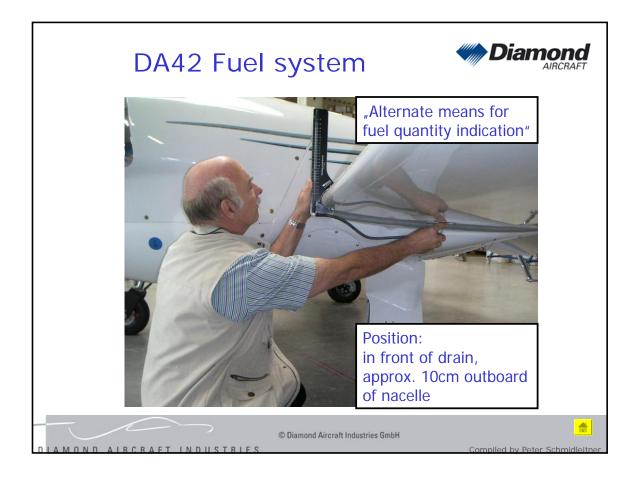


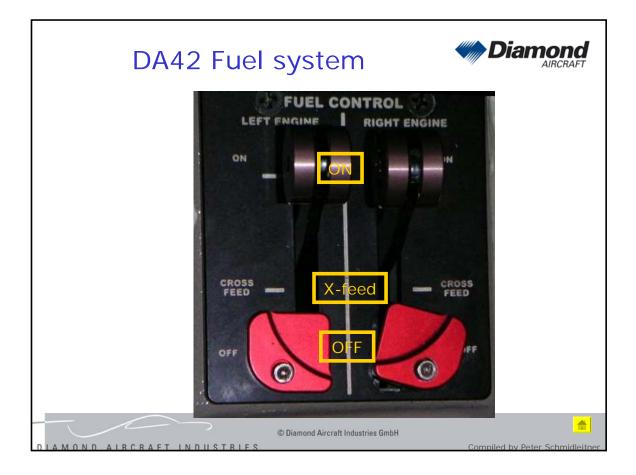


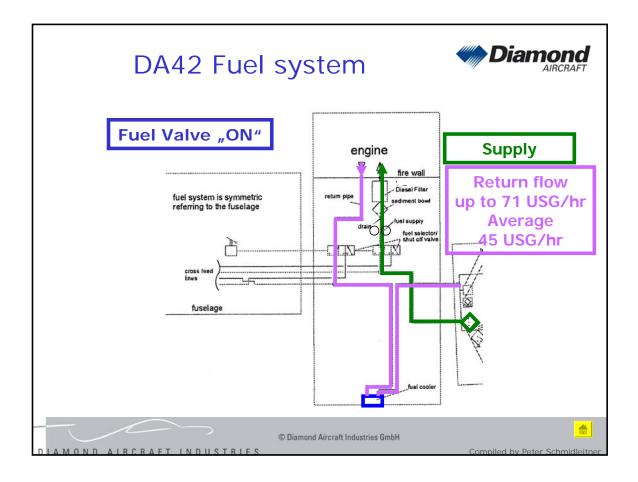


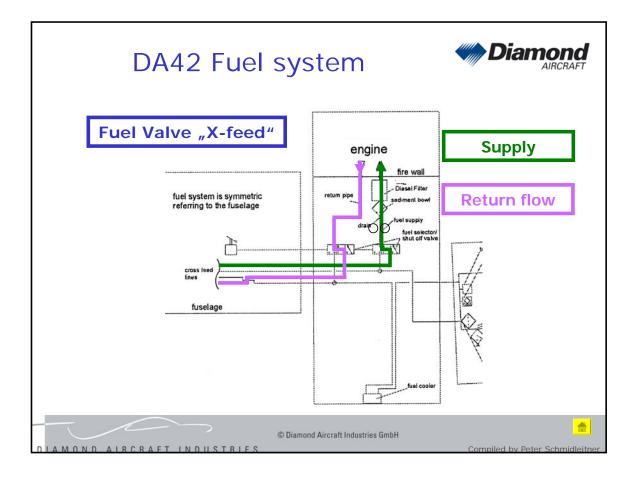


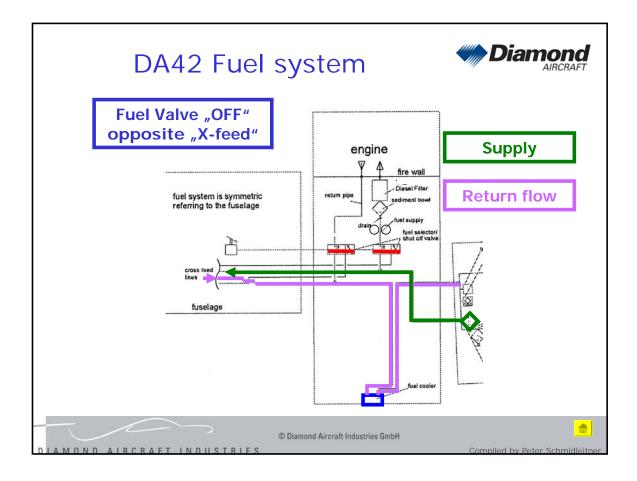


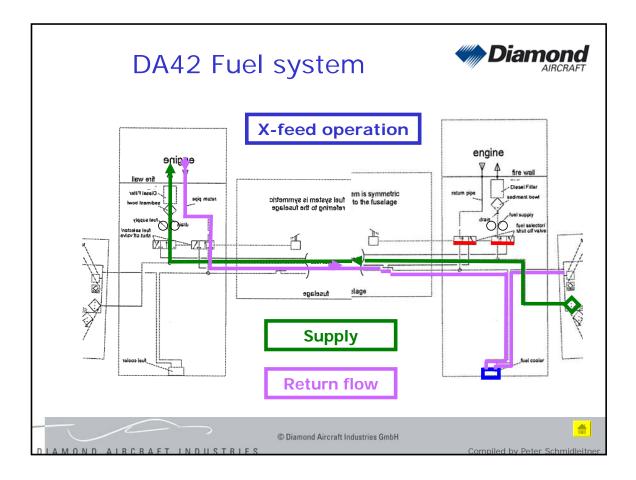


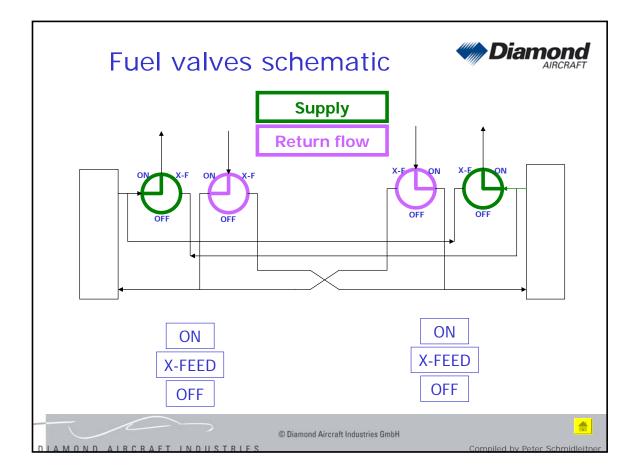


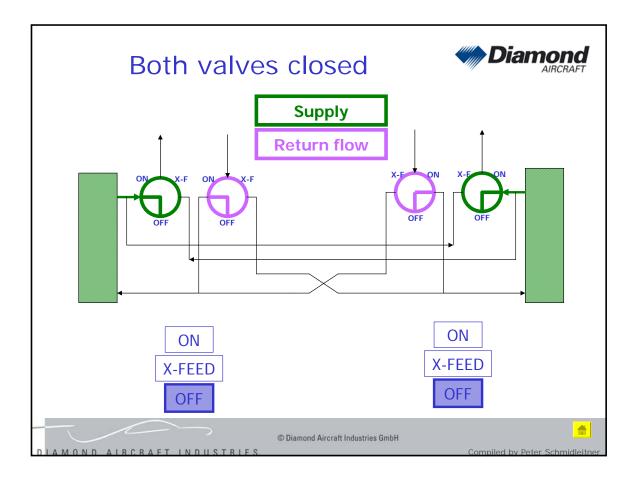


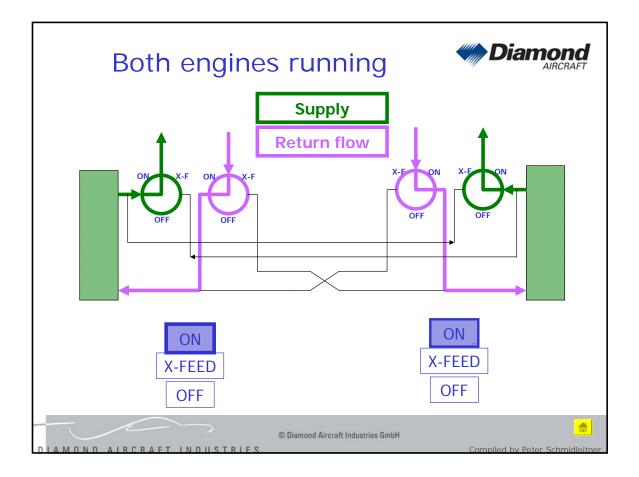


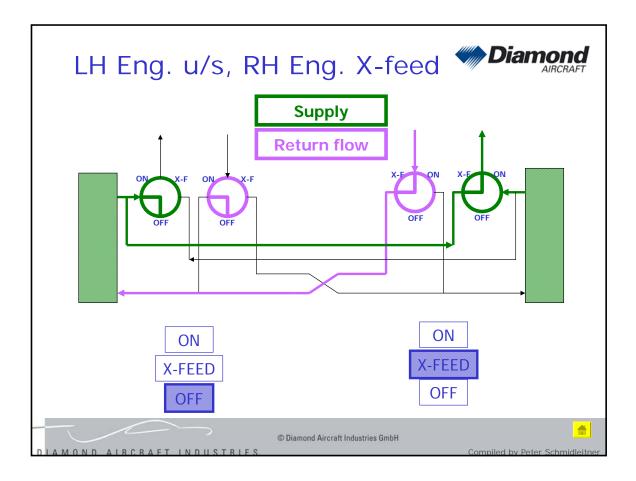


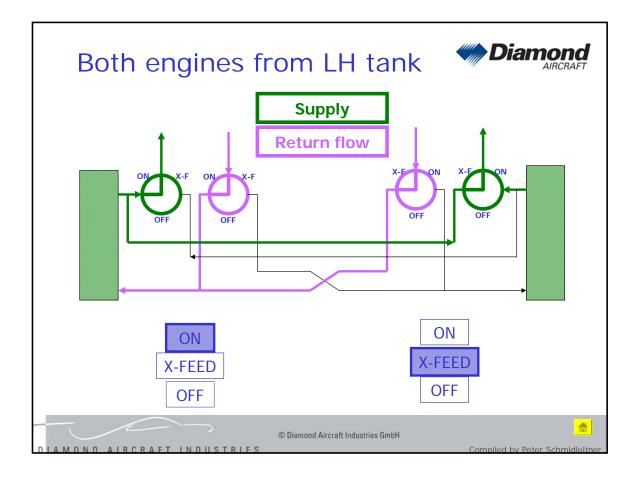


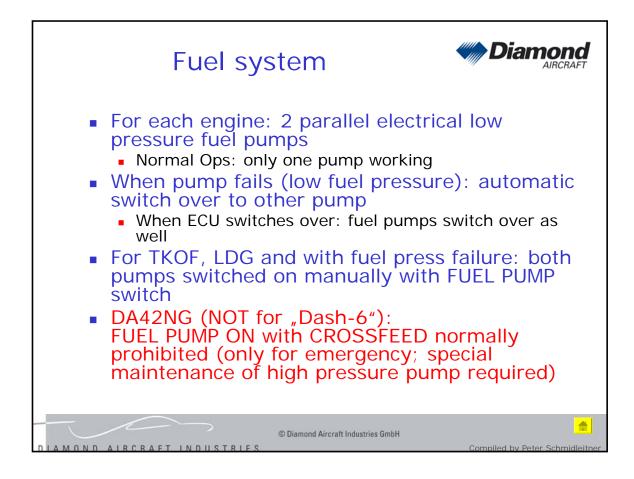


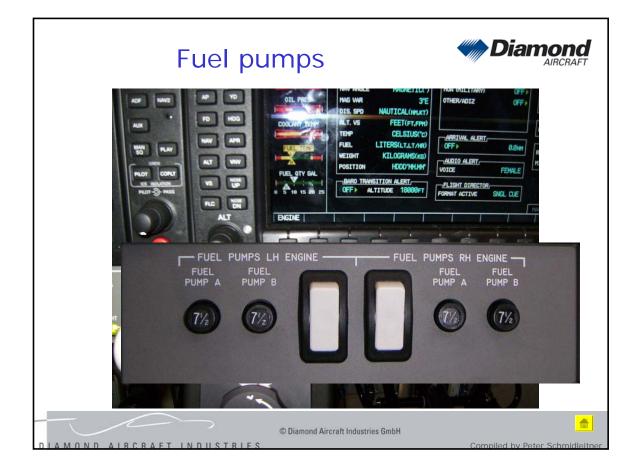


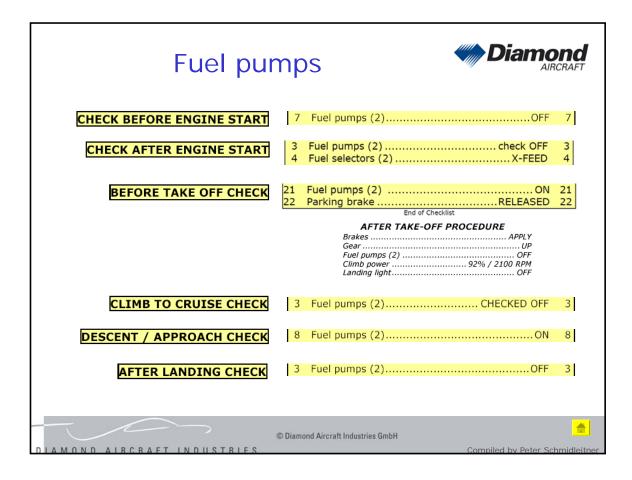


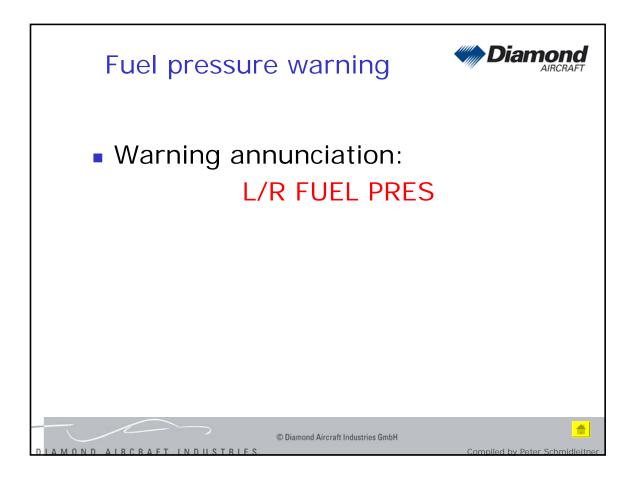


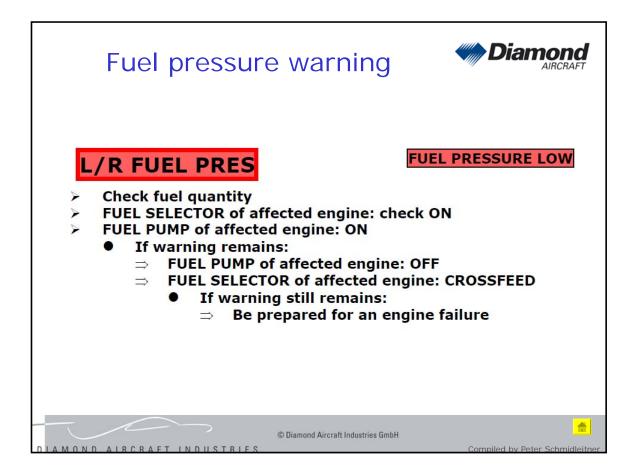


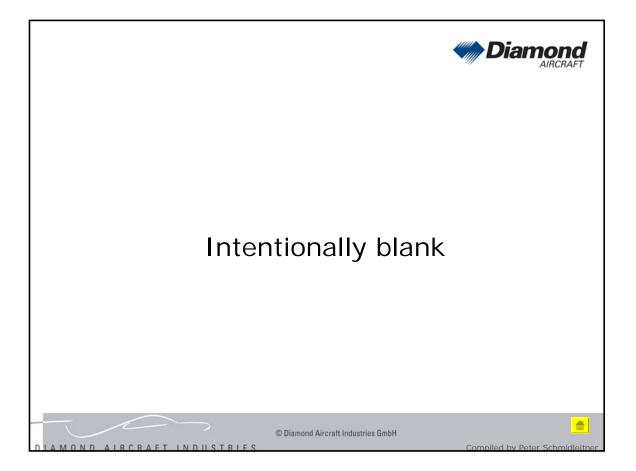




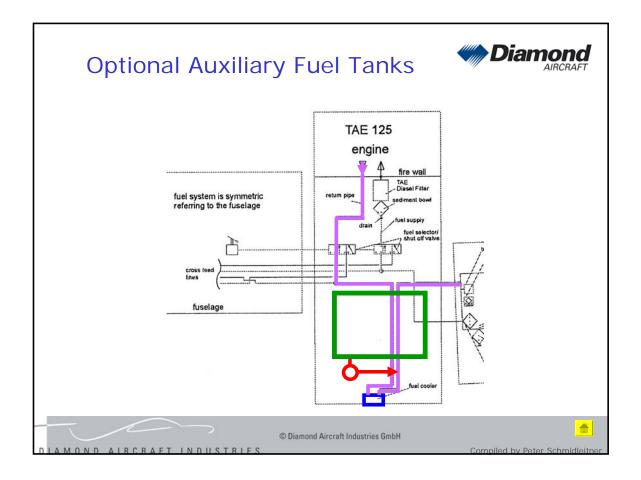


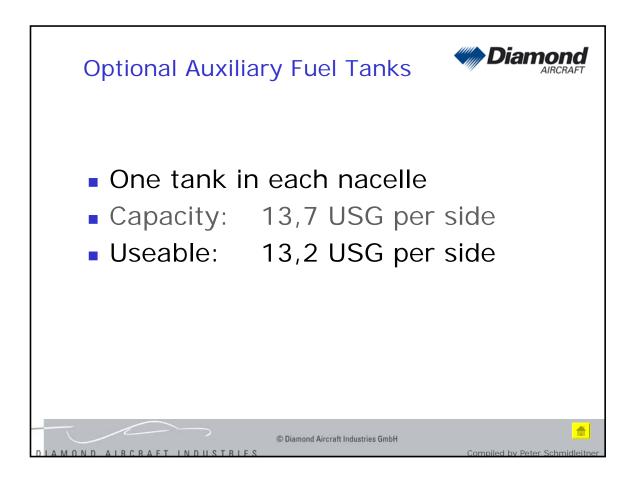


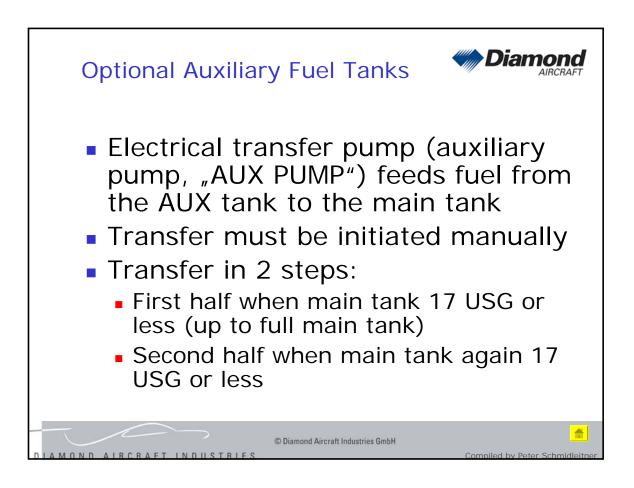


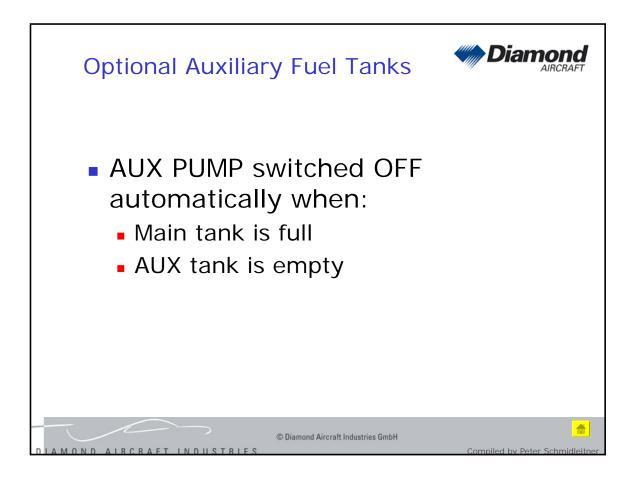










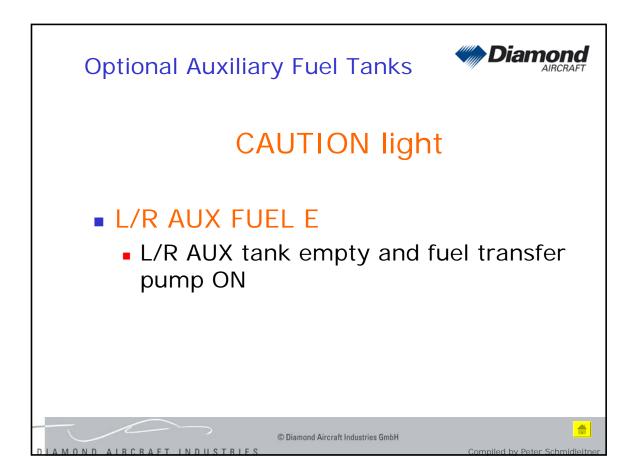


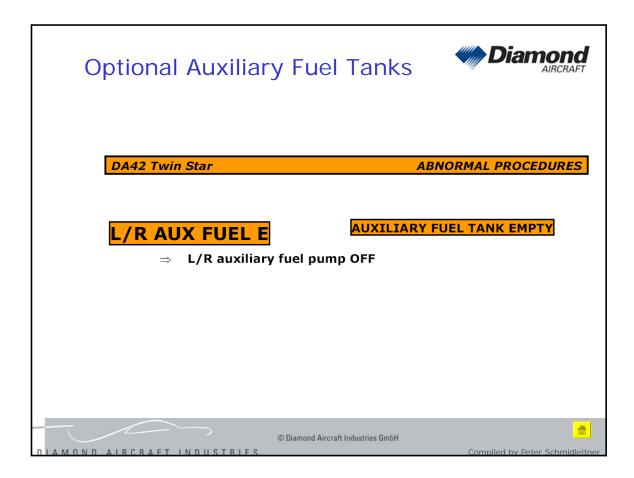
Main tanks	AUX tanks	Total		
2 x 25 USG	2 x 13,2 USG	2 x 38 USC		
50 USG	26,4 USG	76,4 USG		
Maximum unbalance between main tanks:				
5 USG				
1 USG if there	is an unbalance be	tween AUX tank		

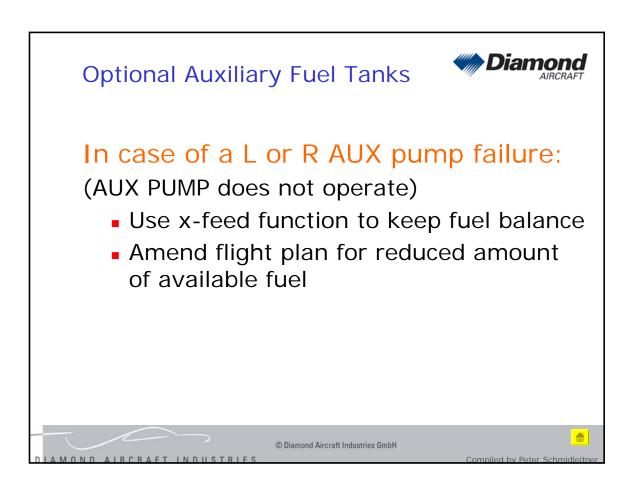


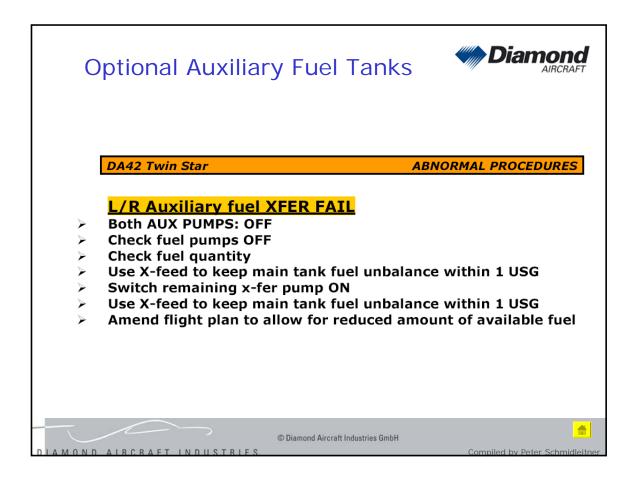


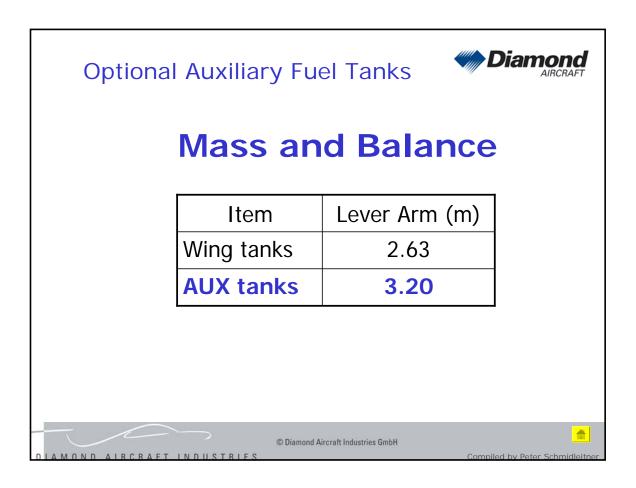


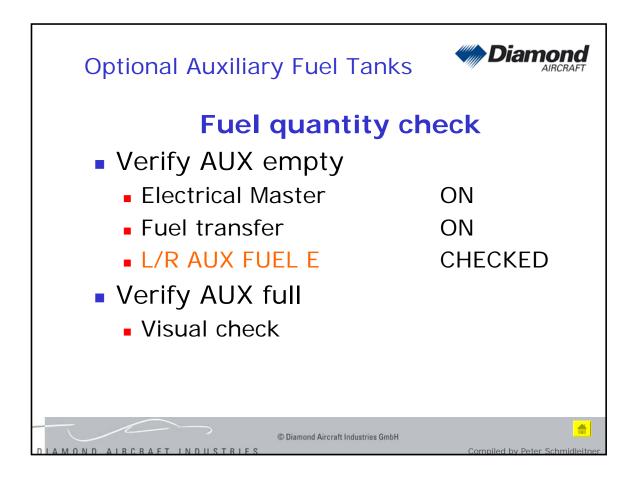


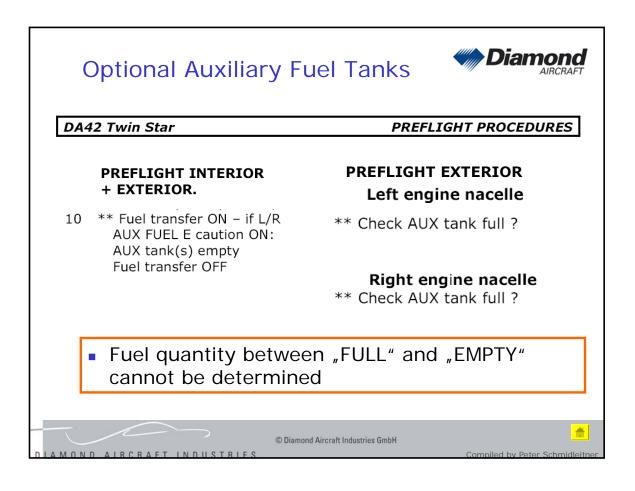


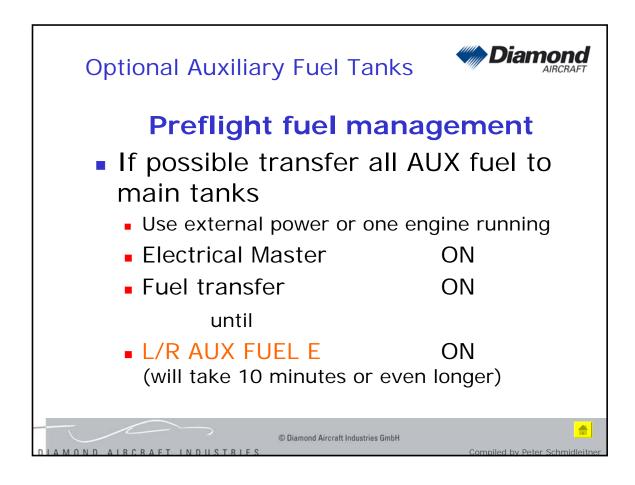


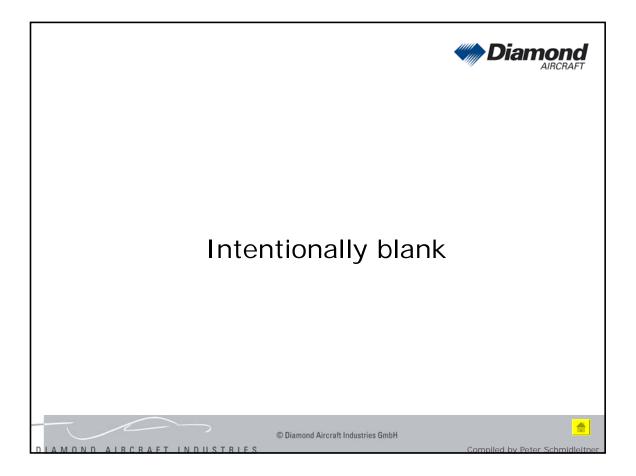


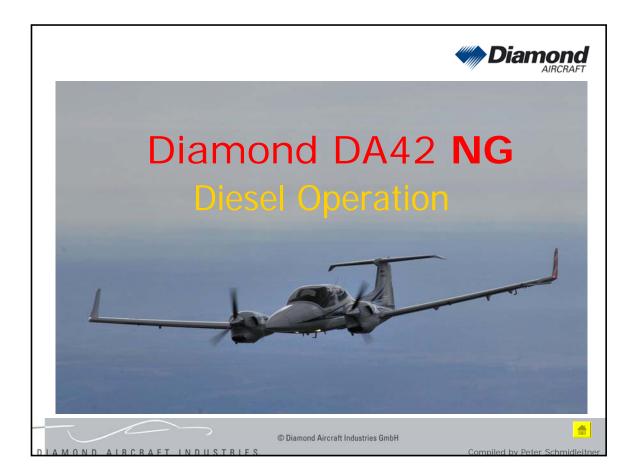




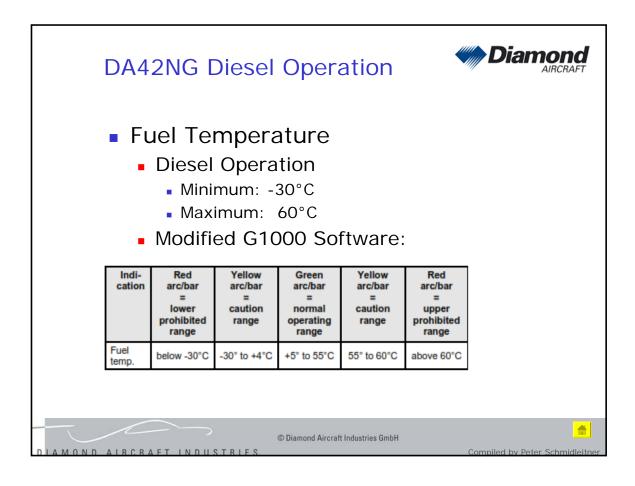


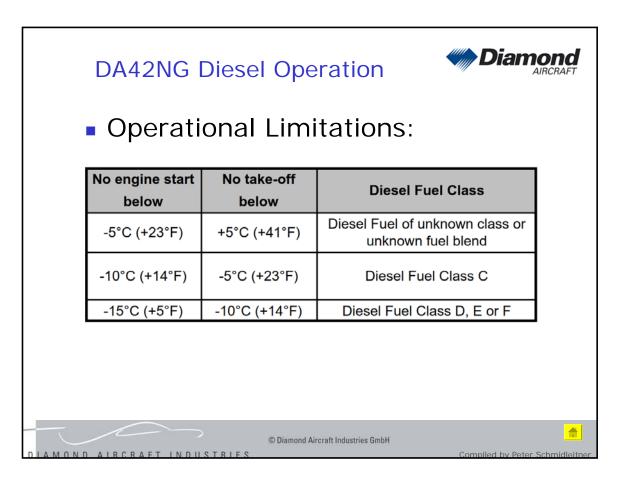


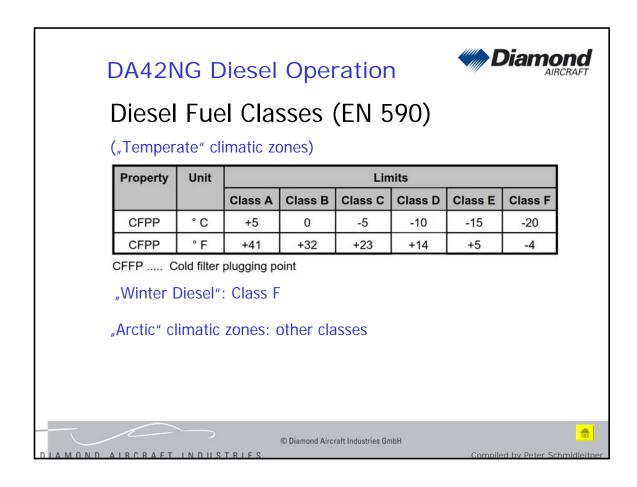


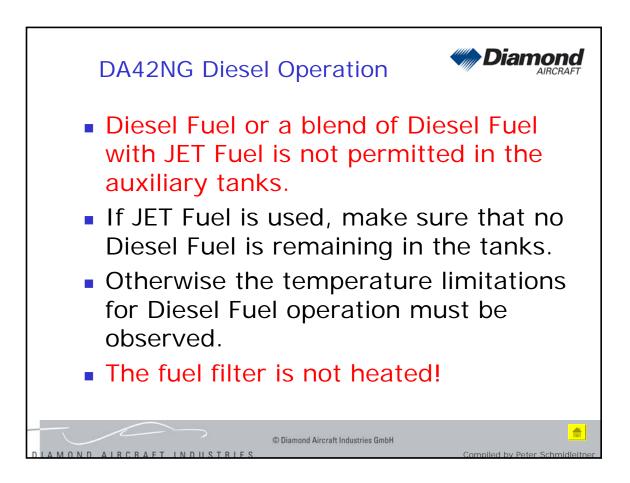


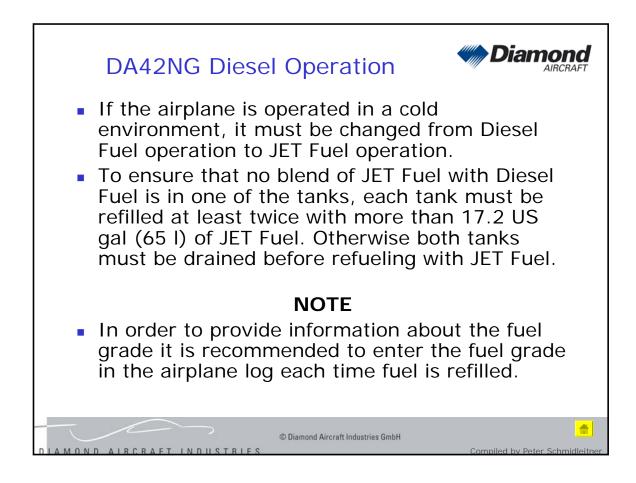
DA42NG Diesel Operation The following item is added to the Modifications checklist: Modification Source Installed **Diesel Operation** OÄM 42-251 🗆 no □ yes 9.2 LIST OF SUPPLEMENTS The following item is added: Airplane S/N: Registration: Date: Sup. Rev. applicable Title Date No. No. YES NO 06-Dec-2013 O05 **Diesel Operation** 0 © Diamond Aircraft Industries GmbH OND ALRCRAFT INDUS





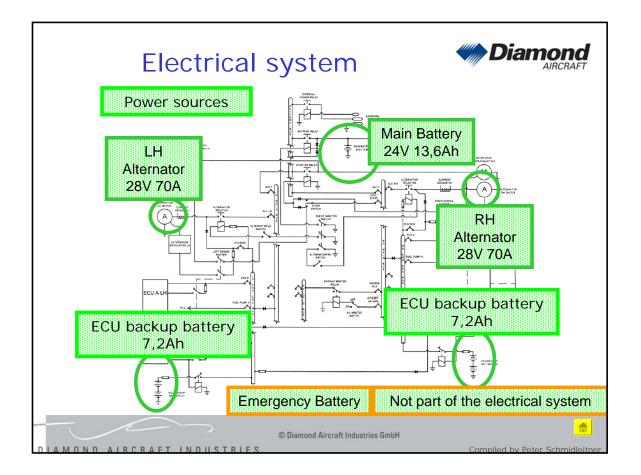


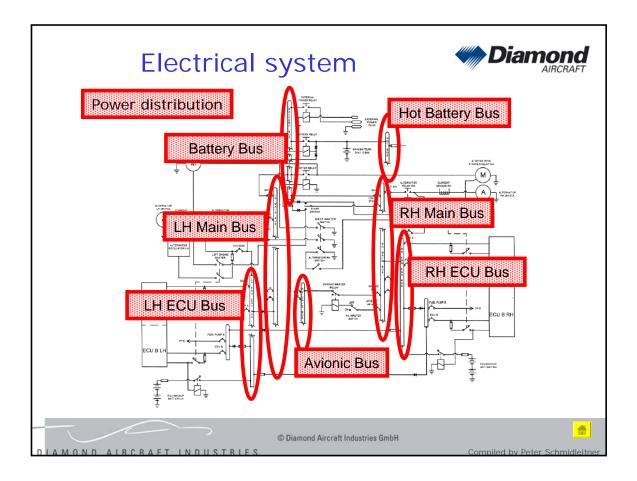


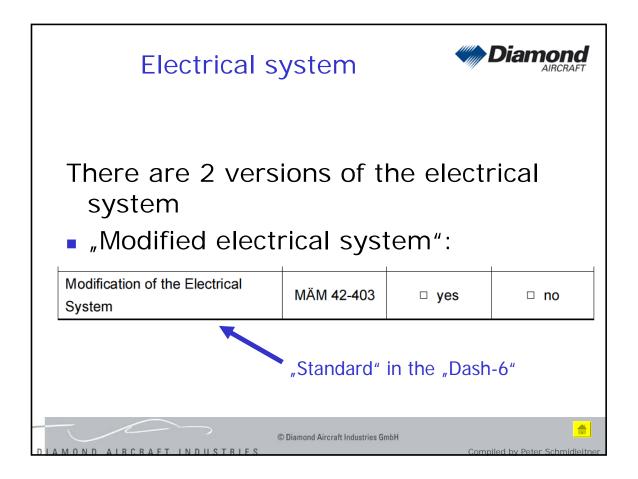


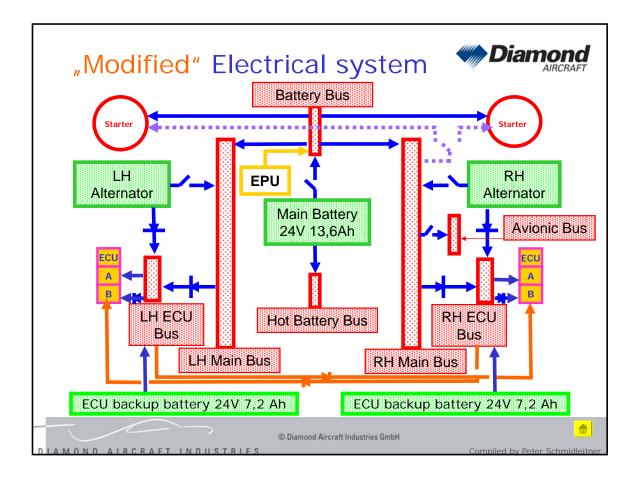
DA42NG Diesel Operation					
Performance below 10° C OAT					
TKOF Ground Roll	(normal and short field) Add 7%				
TKOF Distance					
Olizata	(Flaps UP and Flaps APP)				
Climb	Reduce by 60 ft/min				
1-engine climb	Reduce by 30 ft/min				
Make calculation from the basic AFM value before calculating additional corrections from other Supplements.					
© Diamond Aircraft Industries GmbH					
DIAMOND AIRCRAFT INDUSTRIES Compiled by Peter Schmidleitner					

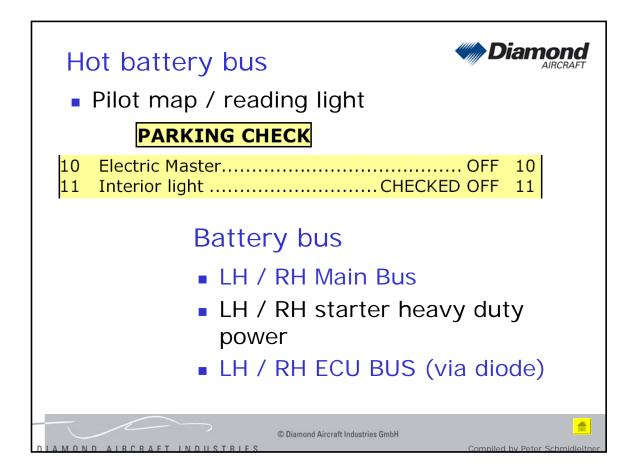


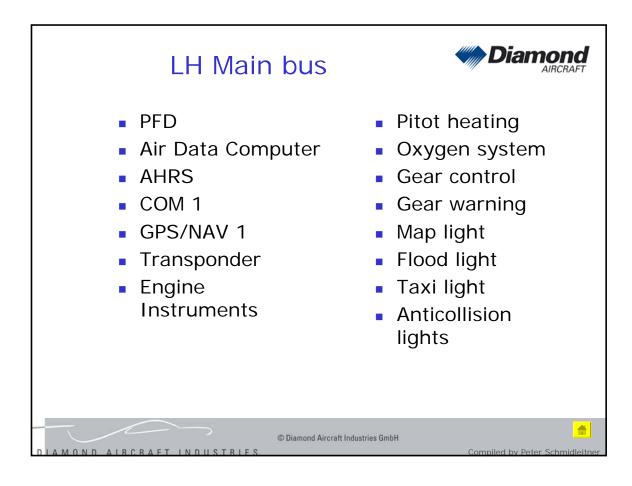


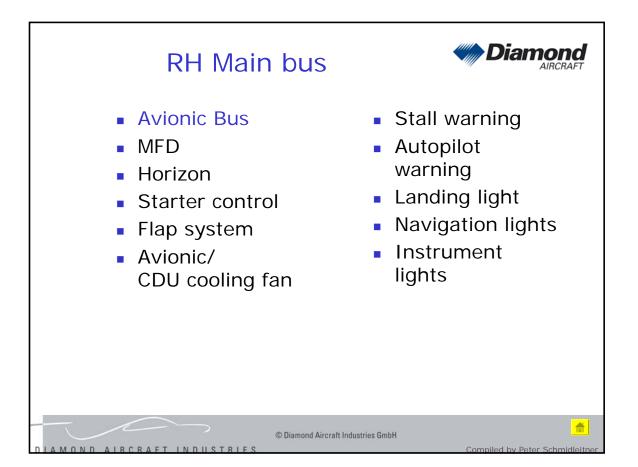


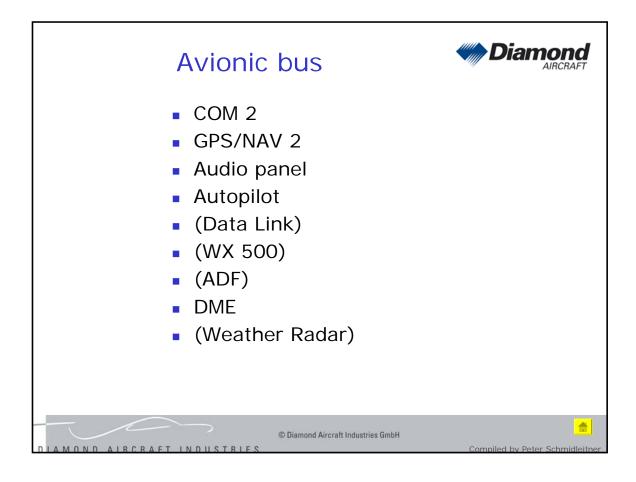


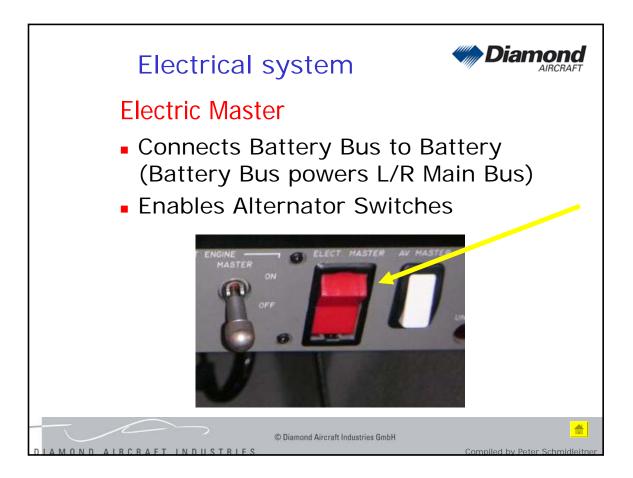


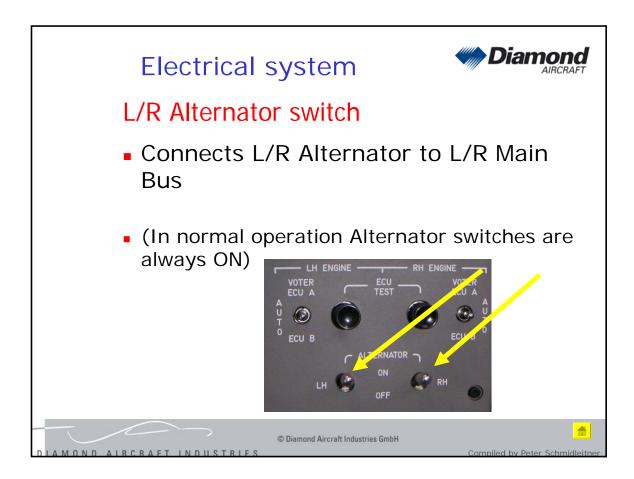


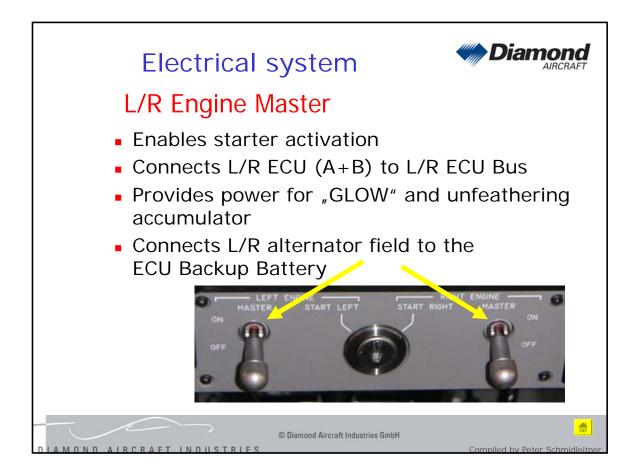


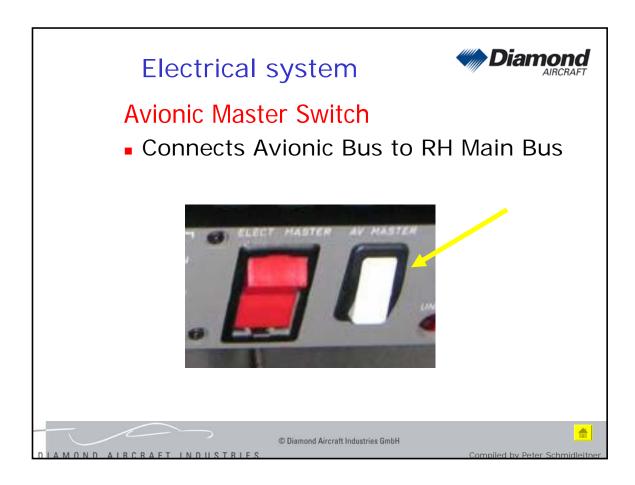






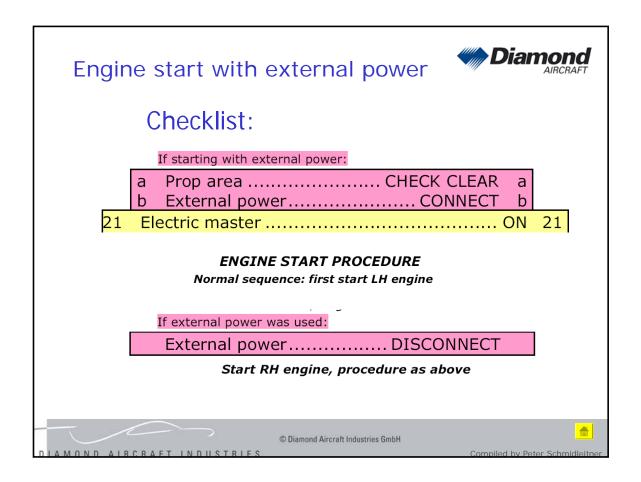


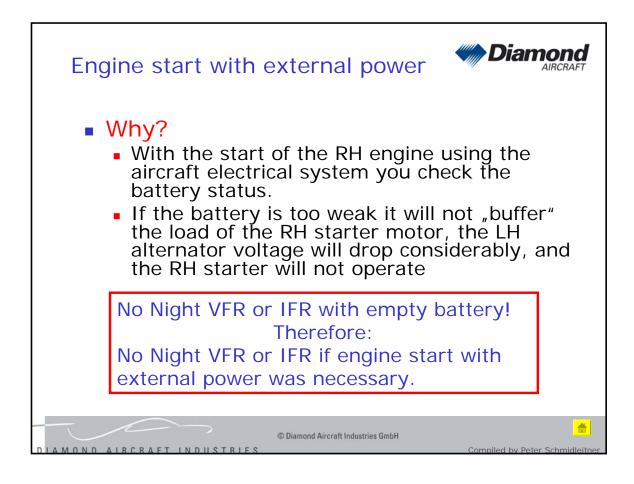


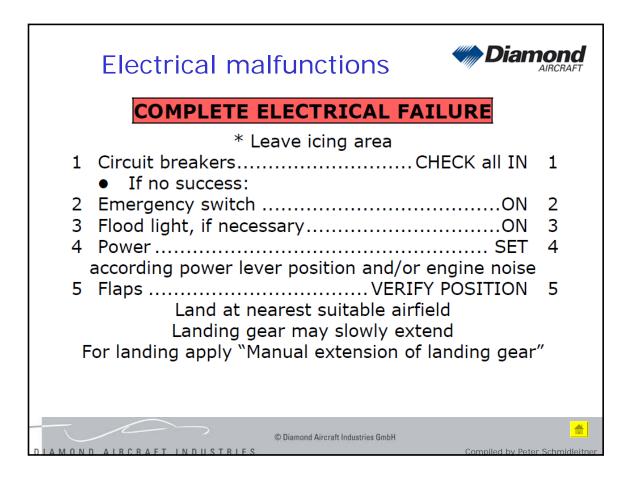


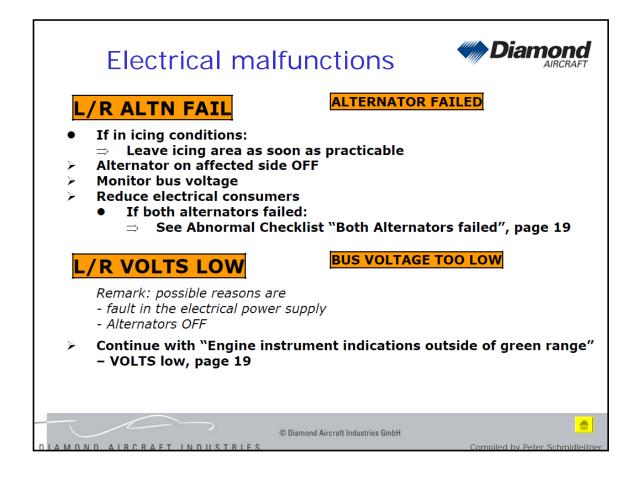


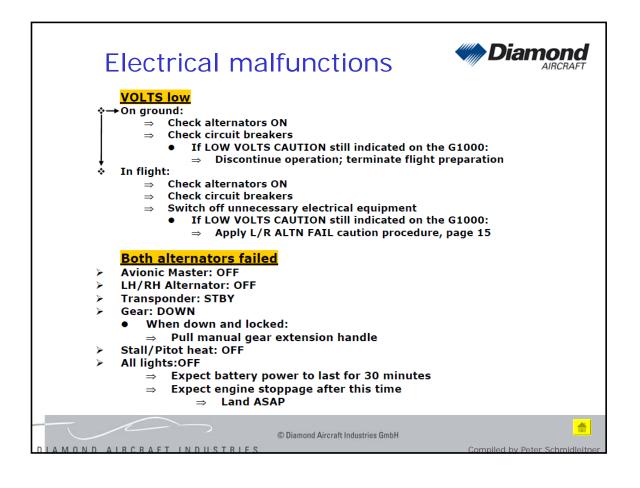
Engine	start wit	h external po	wer Maria	amond AIRCRAFT	
DA 42 M	NG AFM		Abnormal Operatin Procedure	-	
4B.8 STARTING ENGINE WITH EXTERNAL POWER 4. ENGINE MASTER ON, LH side					
12. Idle F 13. Exter	RPM	<u> </u>	check, 740 ±30 R disconnect		
14.1010				procedure	
		© Diamond Aircraft Industries Gr		/ Peter Schmidleitner	

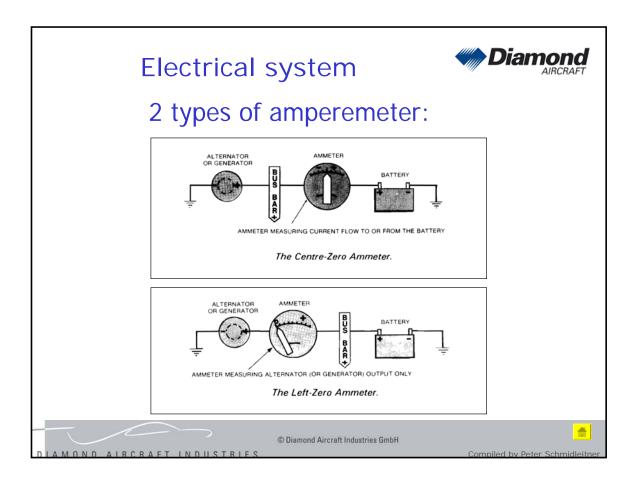


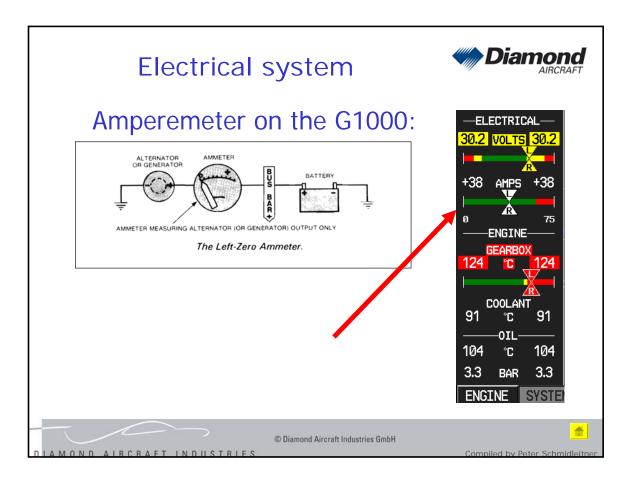




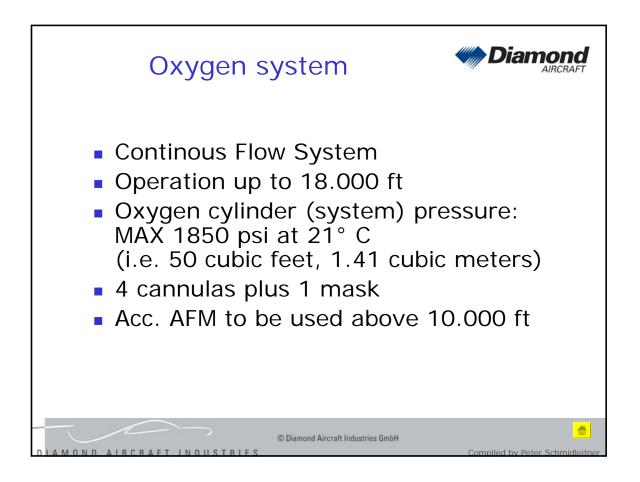


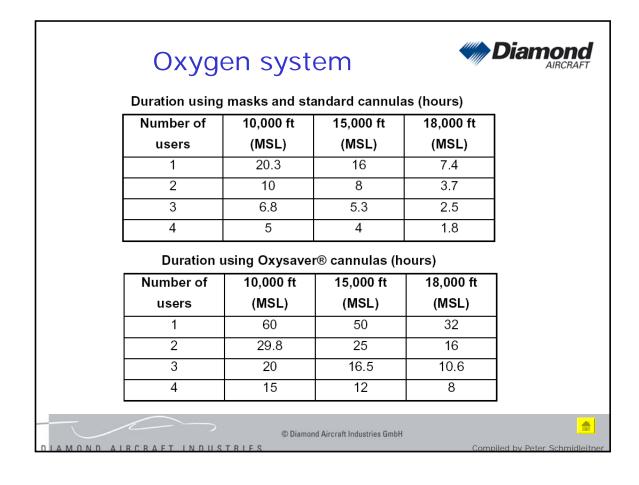


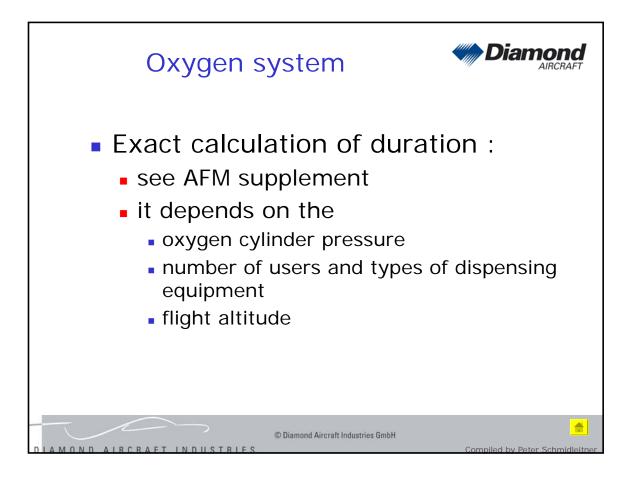


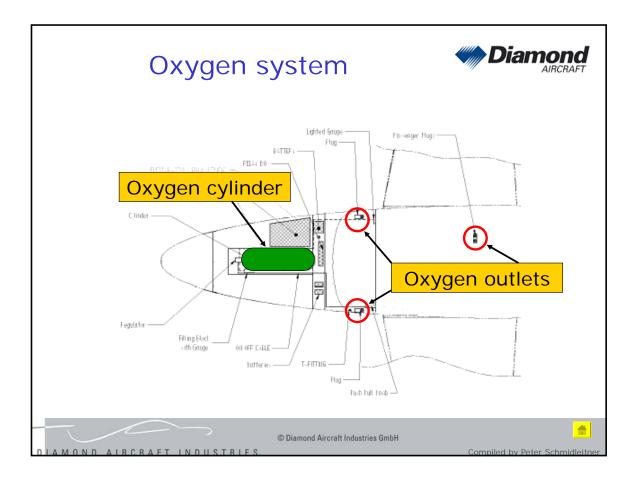


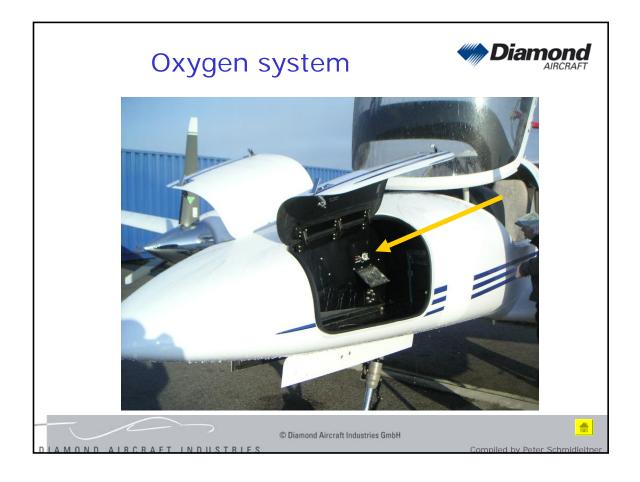


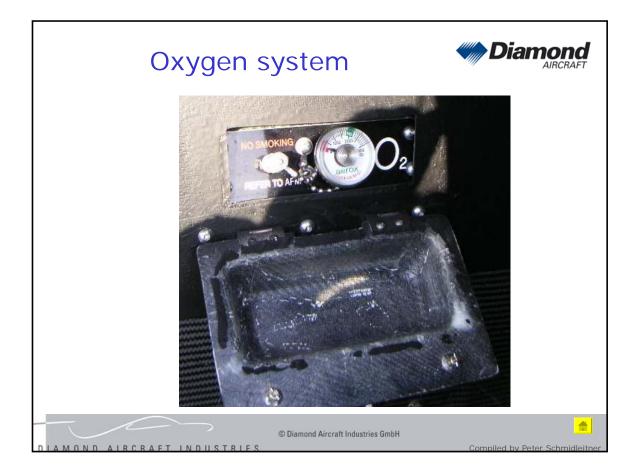










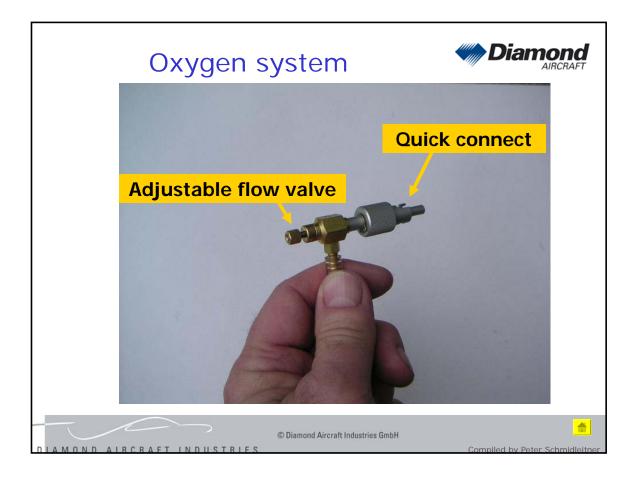


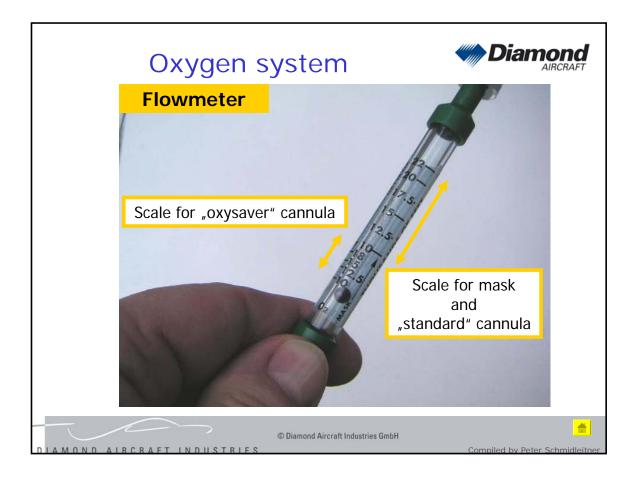
	Oxyg					
		Filling	table			
to chieve a cylinder (system) pressure of 1850 psi						
	Ambient	Filling	Ambient	Filling		
	Temperature	Pressure [psi]	Temperature	Pressure [psi]		
	°C (°F)		°C (°F)			
	-18 (0)	1650	10 (50)	1875		
	-12 (10)	1700	16 (60)	1925		
	-7 (20)	1725	21 (70)	1975		
	-1 (30)	1775	27 (80)	2000		
	4 (40)	1825	32 (90)	2050		
	\sim		craft Industries GmbH			

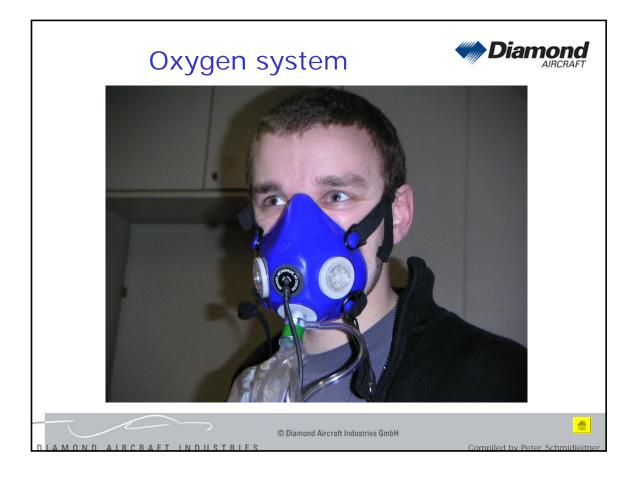


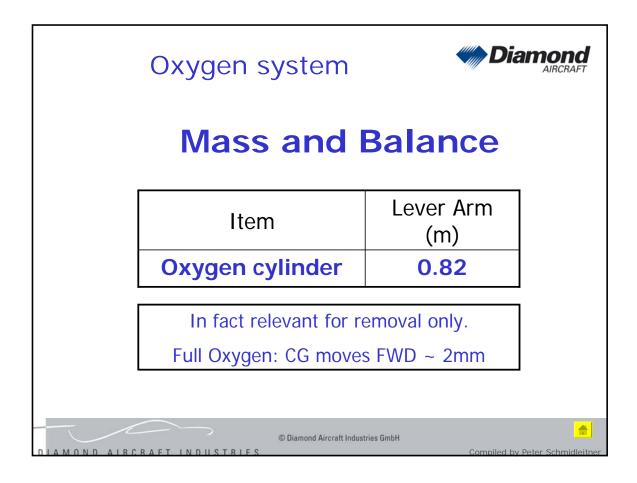


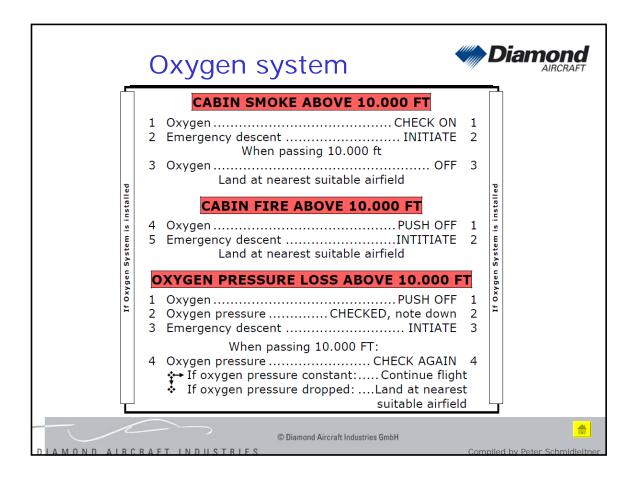




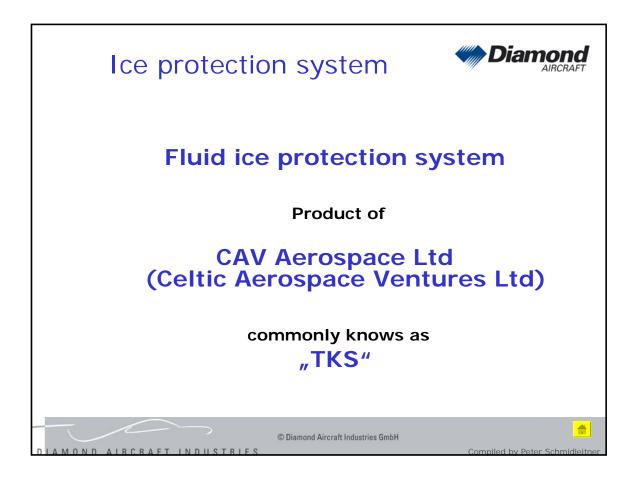


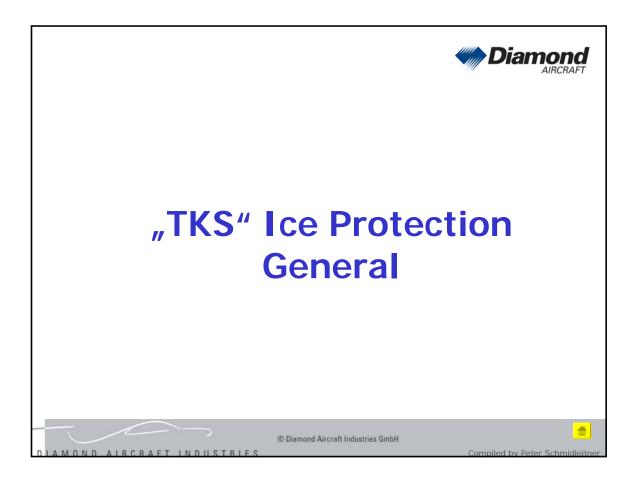


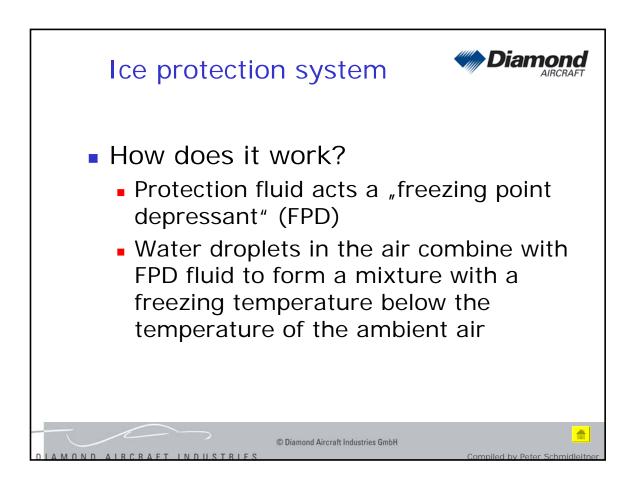


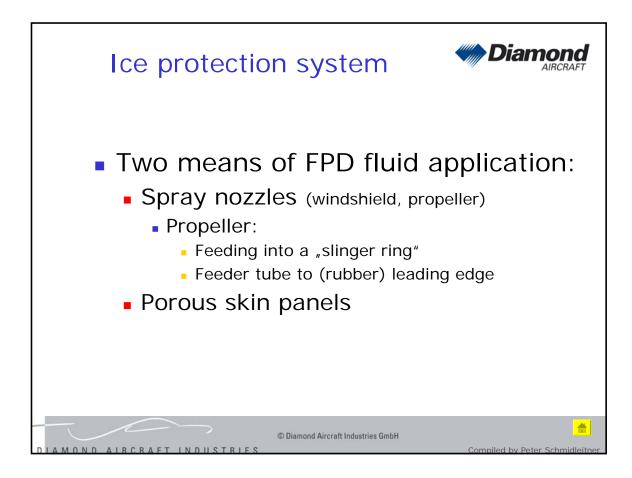


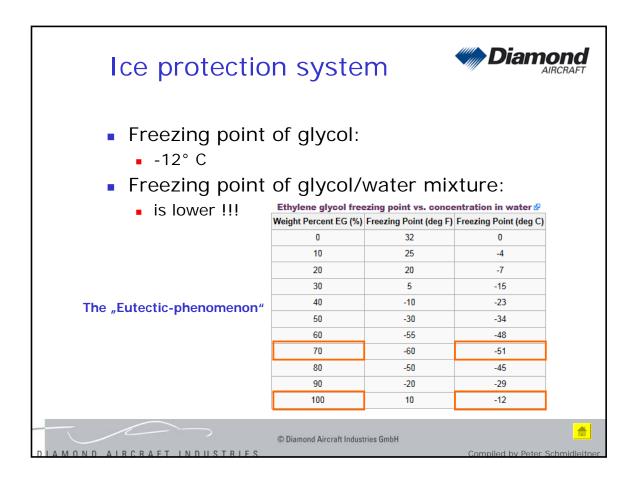


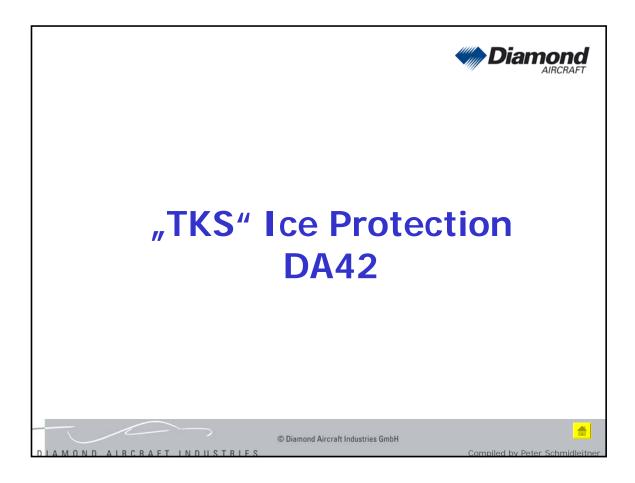






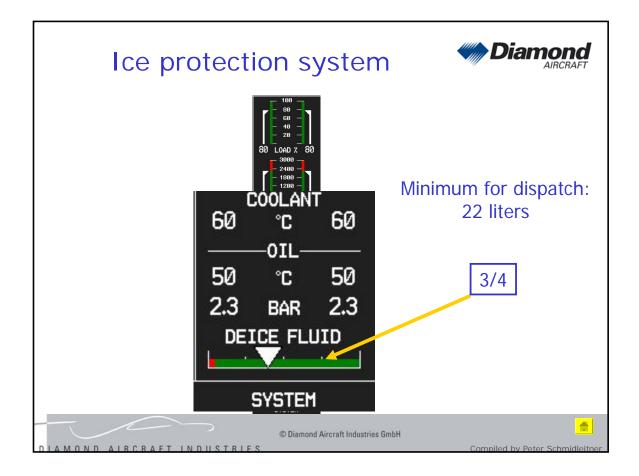


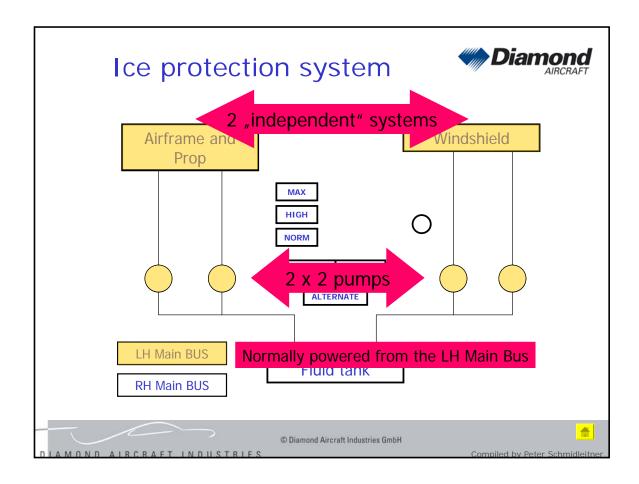


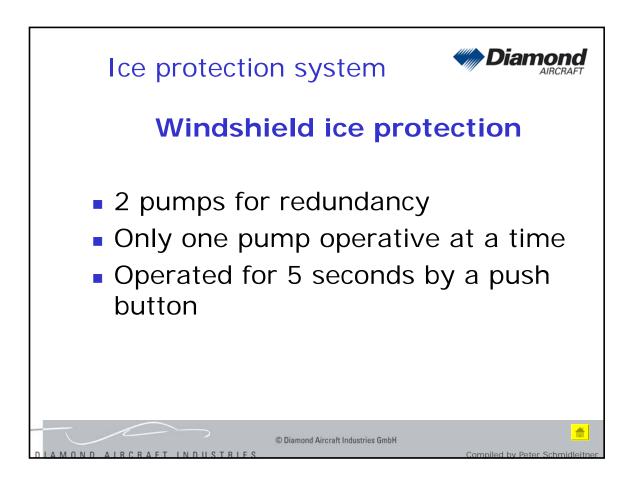








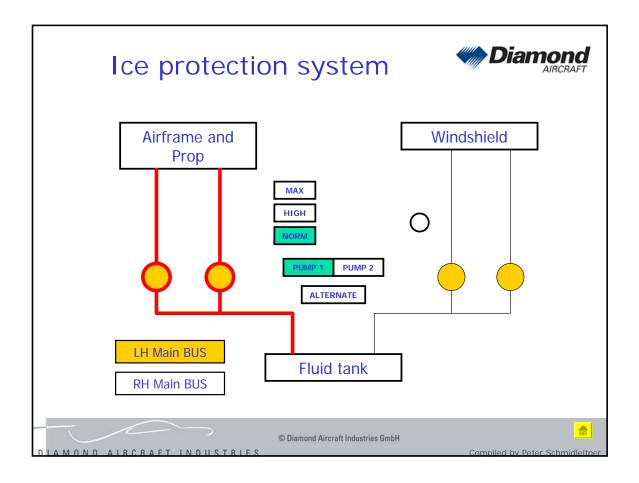




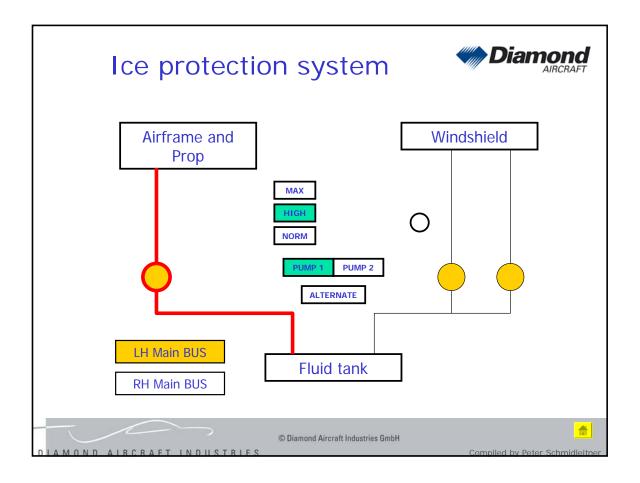
Operational modes					
Mode	Designed to	Selected when			
NORM	cover the more frequent but less severe known icing conditions as defined by CS25/FAR Part 25, Appendix C	icing conditions are encountered and prior to ice formation			
HIGH	cover all known icing conditions as defined by CS25/FAR Part 25, Appendix C	icing conditions are more demanding or ice has already accumulated			
МАХ	provide maximum possible protection for conditions outside the icing envelope as defined by CS25/FAR Part 25, Appendix C				

	ce pi	Olechic	n system	AIRCRAF
		Opera	ational modes	
Mode			Operating mode	Operating time
NORM *)	Climb +		2 pumps simultaneously, but cycled 30 secs ON and 90 secs OFF	~ 2,5 hrs
HIGH **)	Cruise	Approach	1 pump continuously ON	~ 1,0 hr
МАХ			2 pumps simultaneously ON for 2 minutes	~ 0,5 hr
*)	If no she	dding of the i	ce in NORM mode → HIGH	
**)	If no shedding of the ice in HIGH mode → proceed with checklist INADVERTENT ICING ENCOUNTER & EXCESSIVE ICE ACCUMULATION			

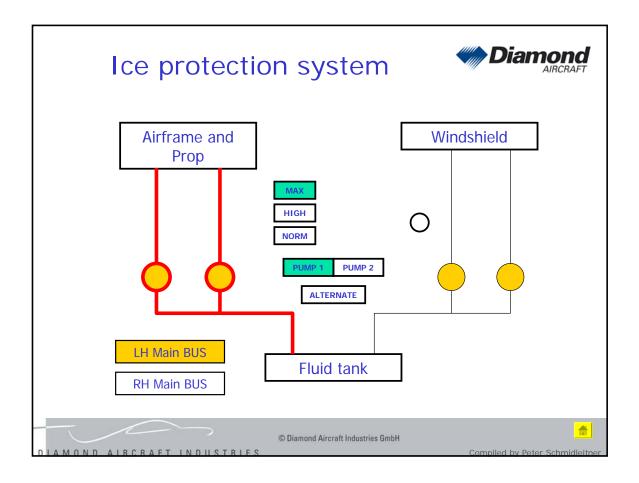




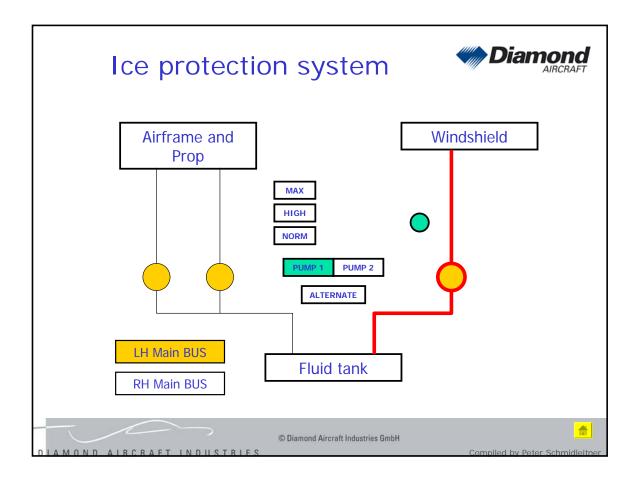


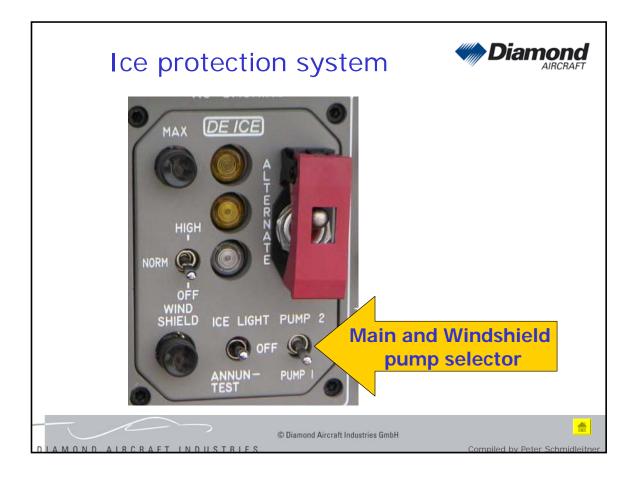


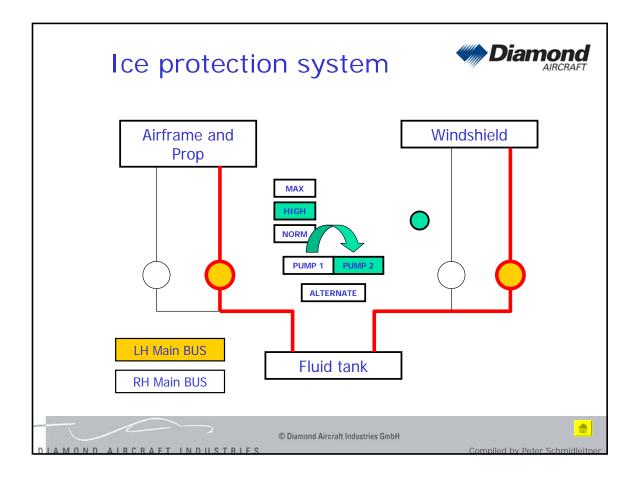




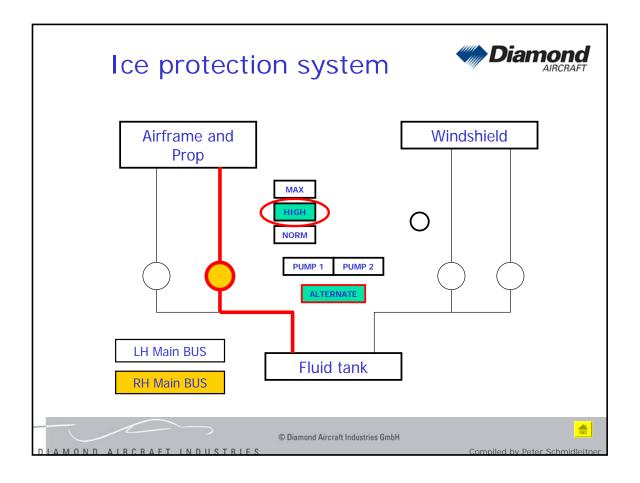




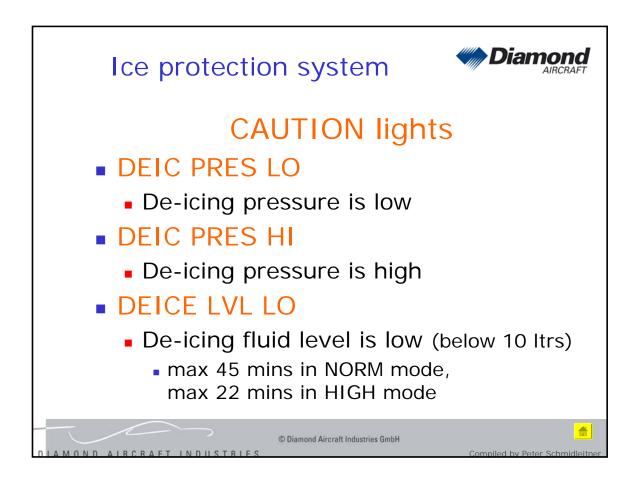


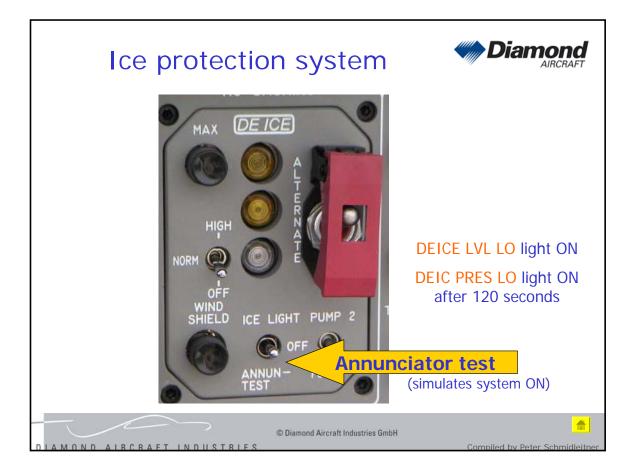


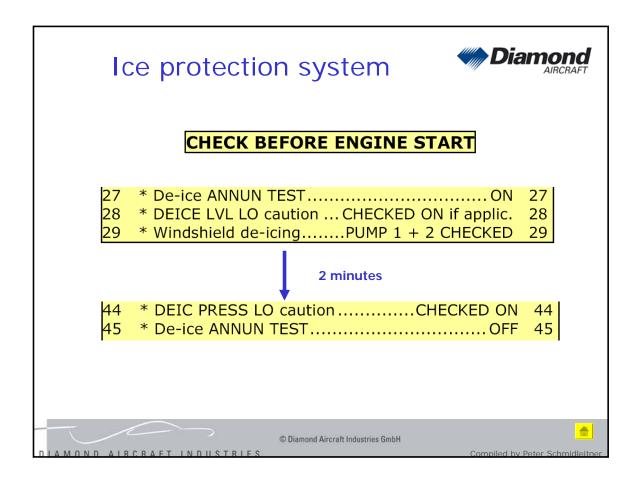


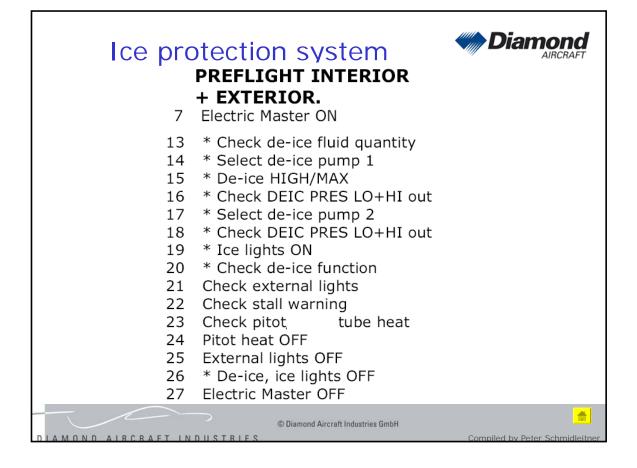


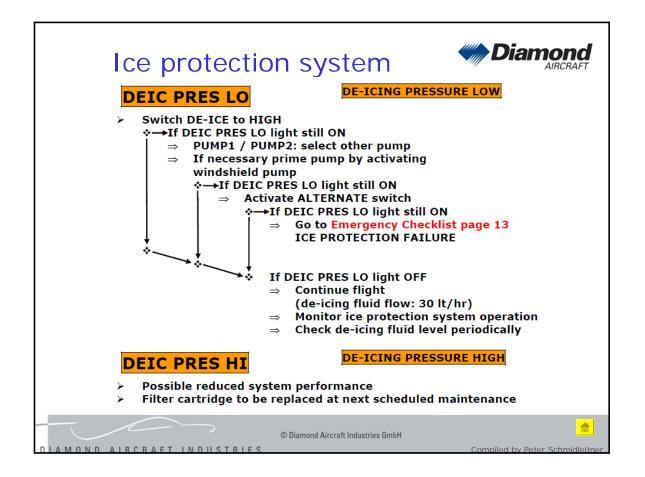


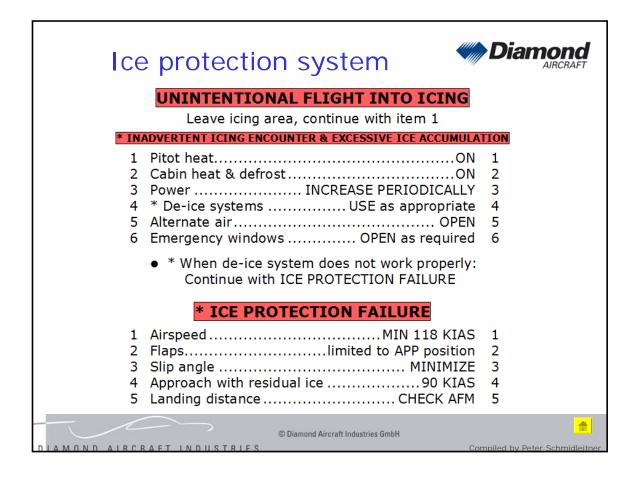


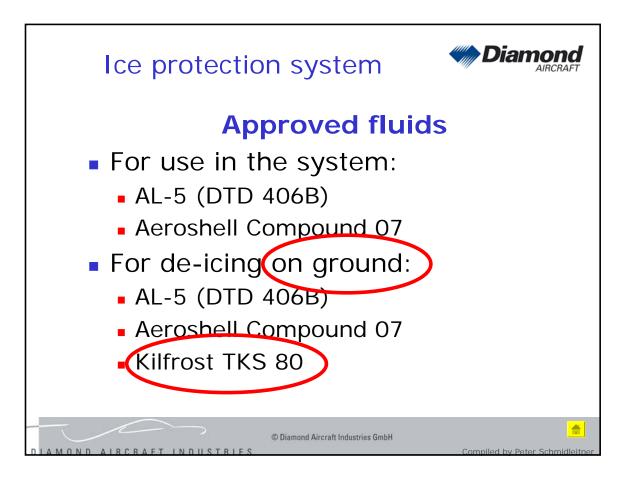


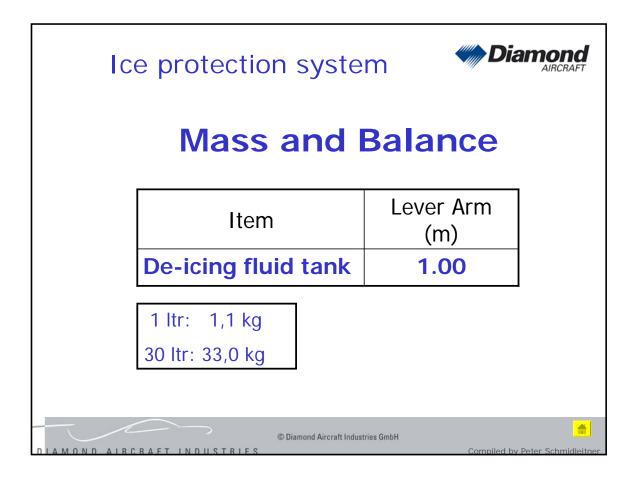


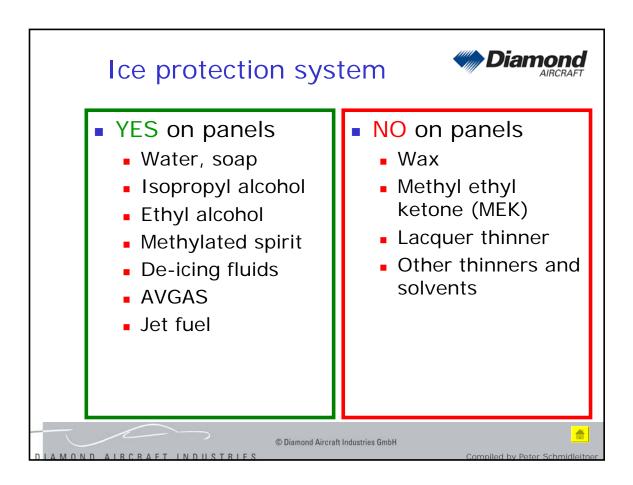


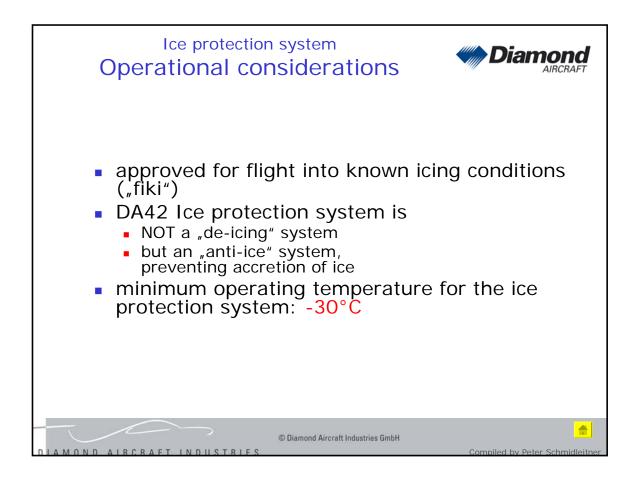


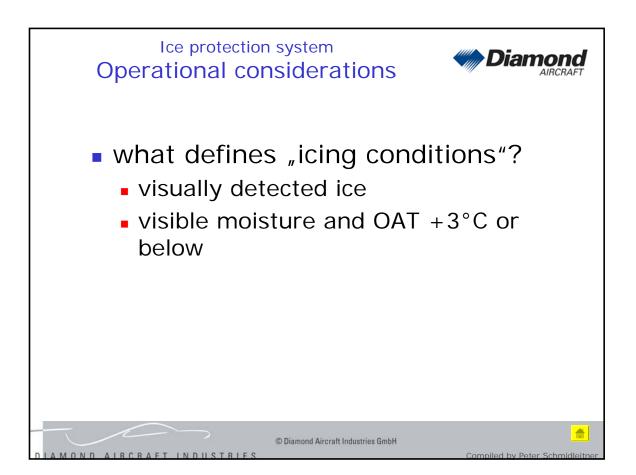


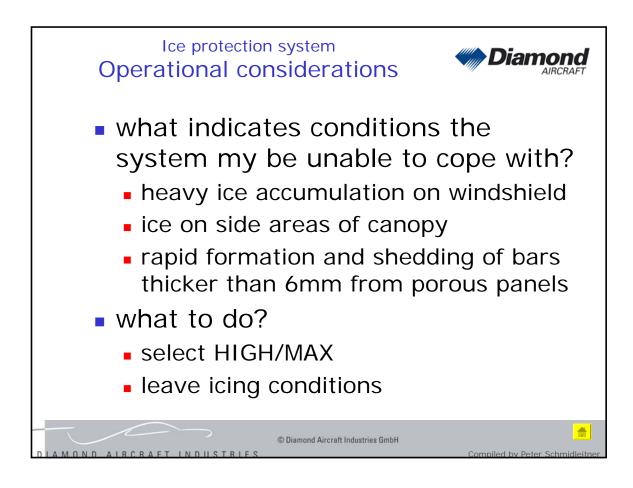


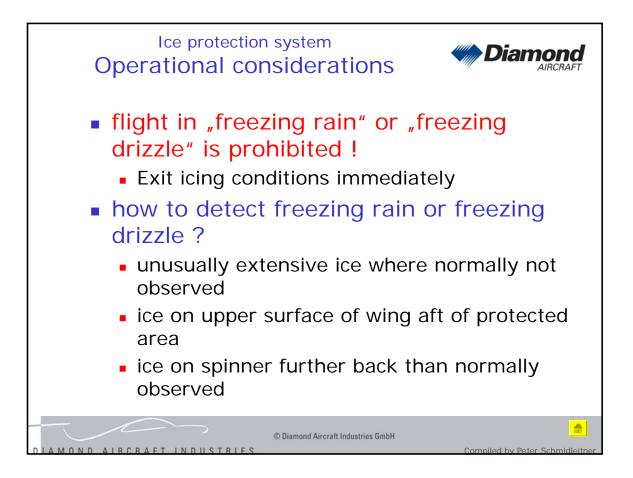


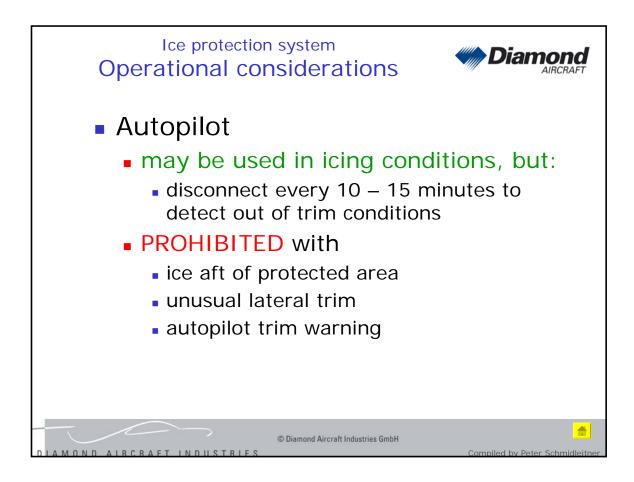


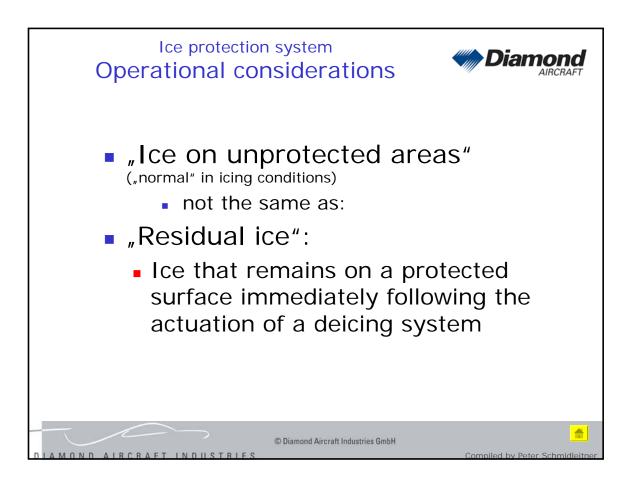




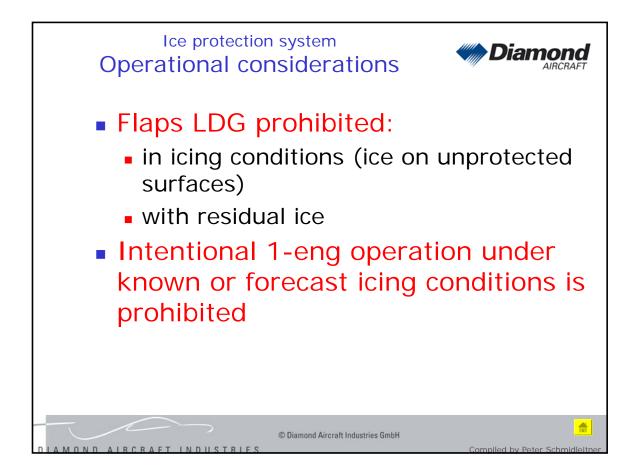


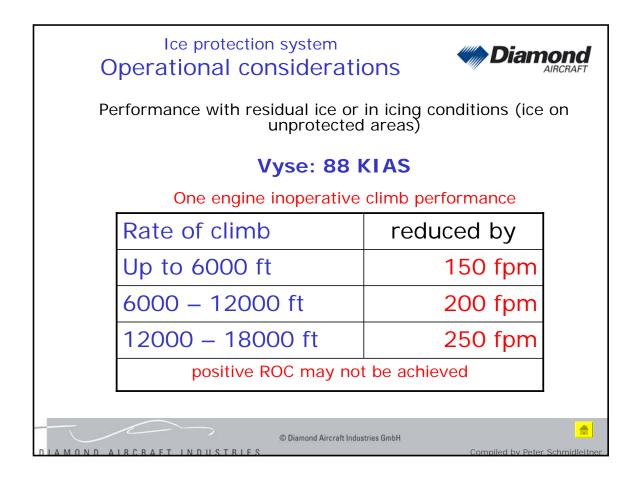


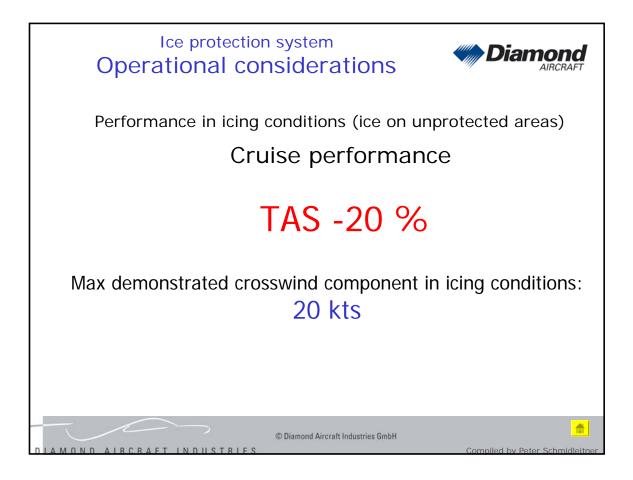


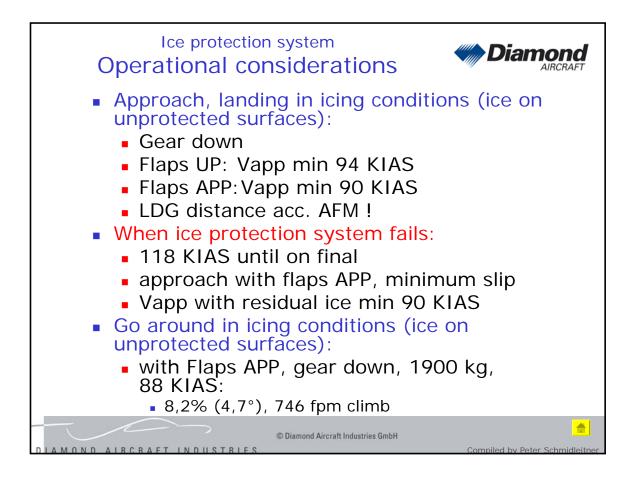


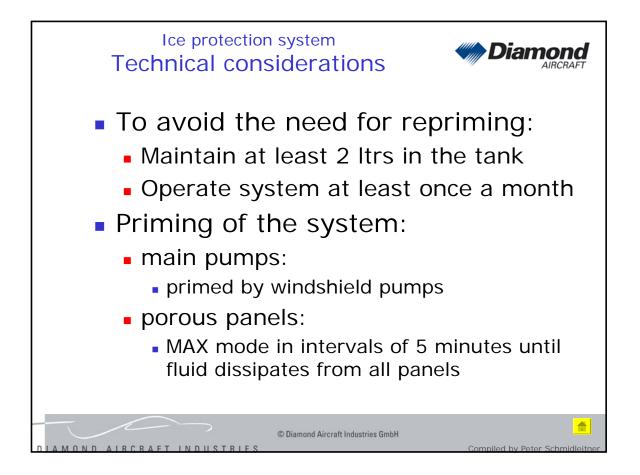
Ice protection system Operational considerations Airspeeds with ice on unp					
Continuous operation in icing conditions (except TKOF, LDG and maneuvers)	118 – 156 KIAS				
Minimum continuous climb speed in icing conditions (flaps UP)	118 KIAS				
Stalling speeds	+ 4-6 KIAS				
App/Ldg Vref in icing conditions, 2	App/Ldg Vref in icing conditions, 2-eng or 1-eng				
Flaps UP	94 KIAS				
Flaps APP	90 KIAS				
Flaps LDG	prohibited				
© Diamond Aircraft Industries Gmb	H Compiled by Peter, Schmidleit				



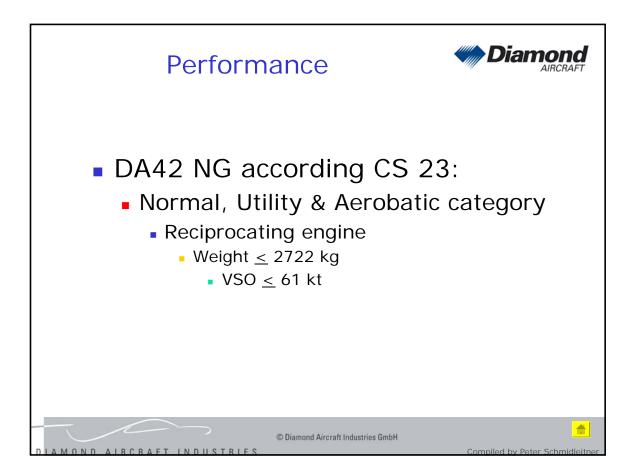


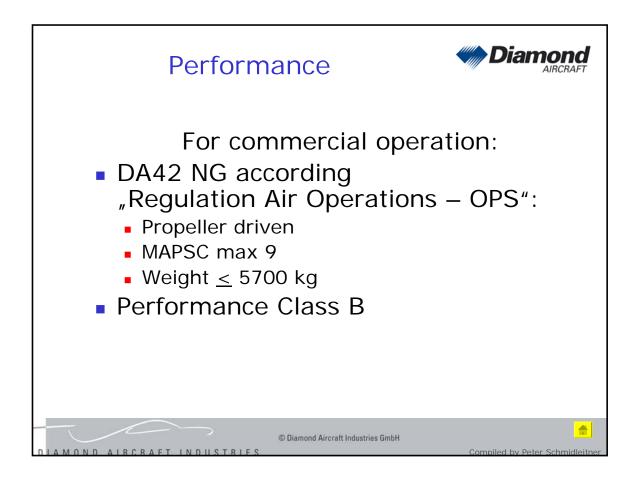


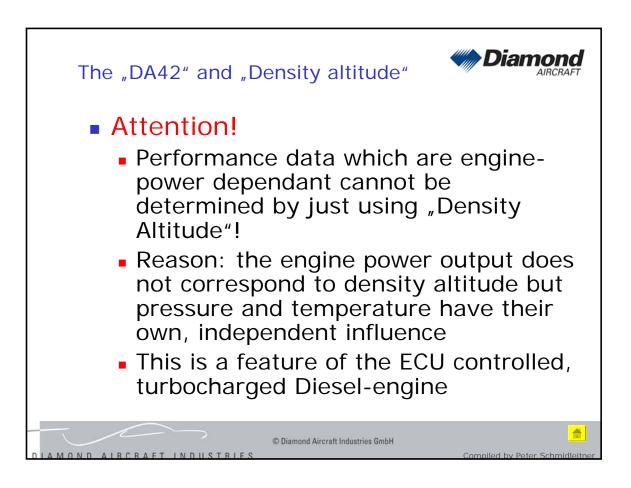




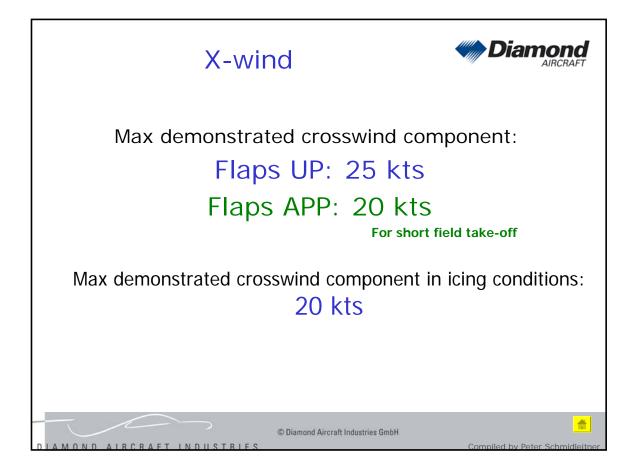






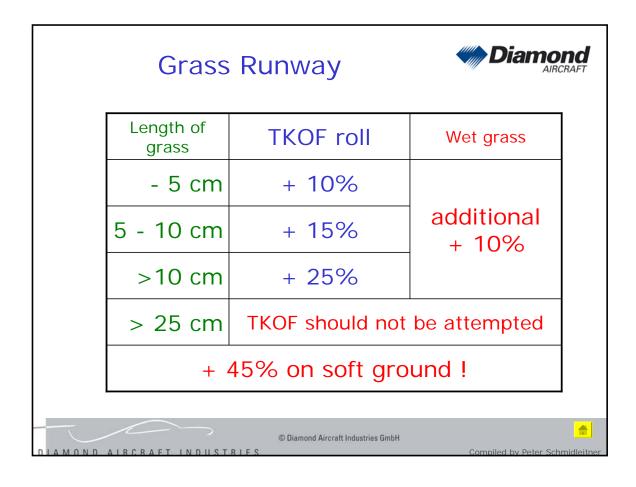


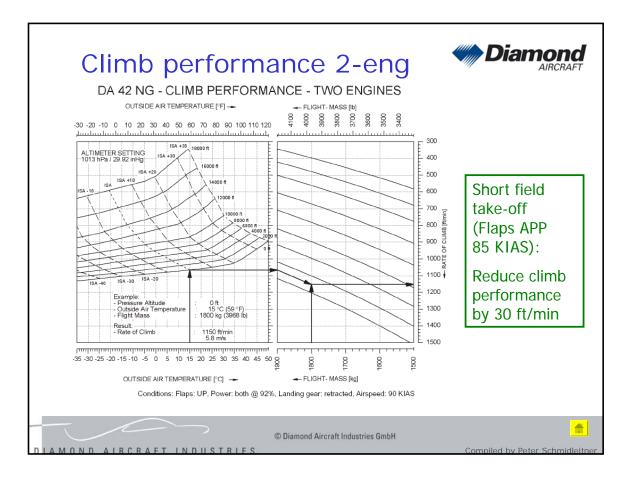
St	tallin	g sp	eeds		•	
Airspeeds in K	IAS at idle po	wer:				
1510 kg	(3329 lb)		Bank	Angle		
Gear	Flaps	0 °	30°	45°	60°	1
UP	UP	62	66	73	85	=
DOWN	APP	62	67	73	86	
DOWN	LDG	58	63	70	83	
			•		•	-
1700 kg	(3748 lb)		Bank	Angle		
Gear	Flaps	0°	30°	45°	60°	
UP	UP	66	70	77	90	
DOWN	APP	64	69	75	89	
DOWN	LDG	60	65	72	86	
1900 kg	(4189 lb)		Bank	Angle		
Gear	Flaps	0 °	30°	45°	60°	
UP	UP	69	74	81	95	
DOWN	APP	66	71	78	92	
	LDG	62	67	75	89	



ΤΟΙ	D, TOR tabular forr	mat <i>Diamond</i>
	values for ISA and MSL, at 1900 k	g (4189 lb)
	Take-off distance to 50 ft (15 m) above take-off surface	733 m (2405 ft)
	Take-off ground roll	458 m (1503 ft)
	The rate of climb with a power setting of 100 (6.0 m/s) at MSL and ISA standard conditi Short Field TKOF, Flaps APP, 82 KIA values for ISA and MSL, at 1900 k	s
		g (+100 lb)
	Take-off distance to 50 ft (15 m) above take-off surface	660 m (2165 ft)
	Take-off ground roll	458 m (1503 ft)
	NOTE The rate of climb with a power setting of 10 (5.84 m/s) at MSL and ISA standard cond	
DIAMOND AIR	© Diamond Aircraft Industr	ies GmbH Compiled by Peter Schmidleitner

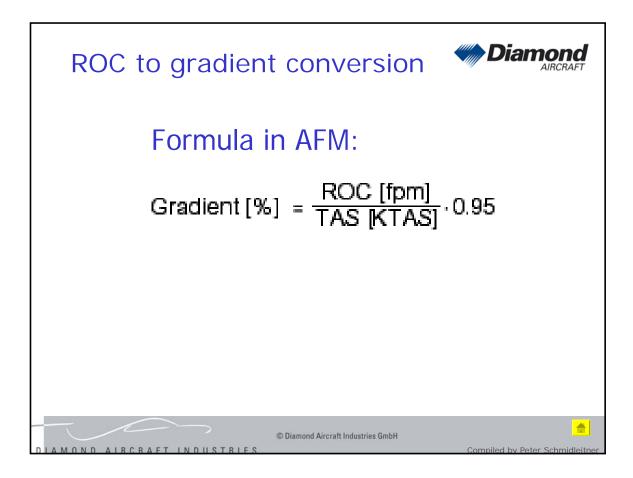
Short	Field TKOF	, Flaps	APP	, 82 k	(IAS						
Reduce	e Take-Off dista	ince givei	n in tl	he Tak	e-Off (diagra	am by i	the fo	llowin	g perc	entage
	T/O Weight	15	510 kg			1700 k	g		1900 k		
	Altitude OAT	ISA -20°C	ISA	ISA +20°C	ISA -20°C	ISA	ISA +20°C	ISA -20°C	ISA	ISA +20°C	
	MSL	7%	8%	7%	8%	9%	8%	9%	10%	10%	
	5000 ft	8%	9%	8%	8%	9%	10%	10%	11%	12%	
	10000 ft	8%	10%	8%	8%	10%	12%	11%	14%	17%	



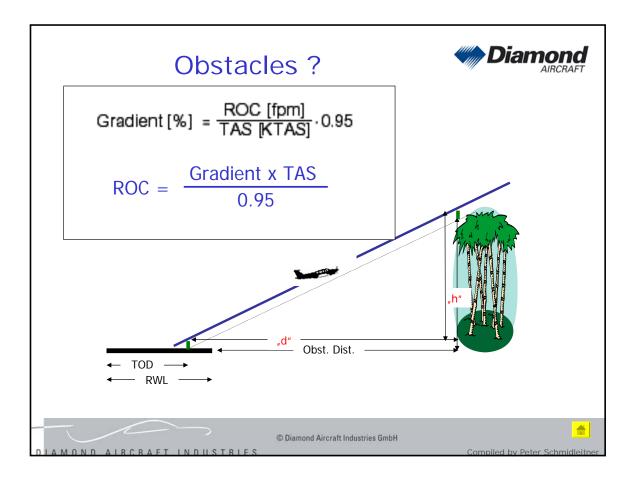


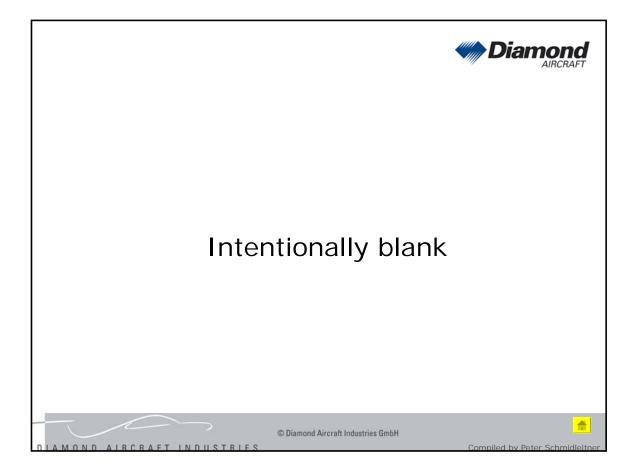
Values for ISA and MSL, at 1805 kg (3979 lb), approach speed 84 KIA
anding distance from 50 ft (15 m) above the anding surface	598 m (1962 ft)
Ground roll	353 m (1158 ft)
anding distance from 50 ft (15 m) above the anding surface	618 m (2028 ft)
	1

Go arou	und <i>Chamond</i>
Value for	ISA and MSL, at 1805 kg (3979 lb) 84 KIAS
Constant gradient of climb	7.5 % (equals 4.3 climb angle) or 612 ft/min
Value for	ISA and MSL, at 1900 kg (4189 lb) 84 KIAS
Constant gradient of climb	6.7 % (equals 3.8 climb angle) or 547 ft/min
Required gradient a	acc. CS 23.77 (a): 3,3% at Sea Level
LAMOND ALRCRAFT INDUSTRIES	© Diamond Aircraft Industries GmbH Compiled by Peter. Schmidleitr

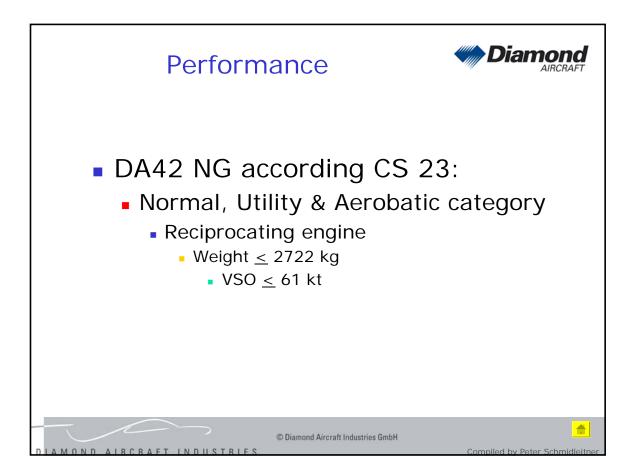


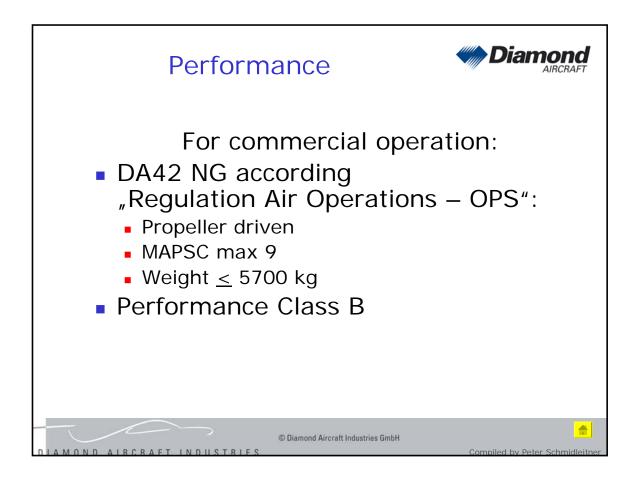
Grass	Runway	
Length of grass	LDG run	Wet grass
- 5 cm	+ 5%	
5 - 10 cm	+ 15%	additional + 10%
>10 cm	min + 25%	

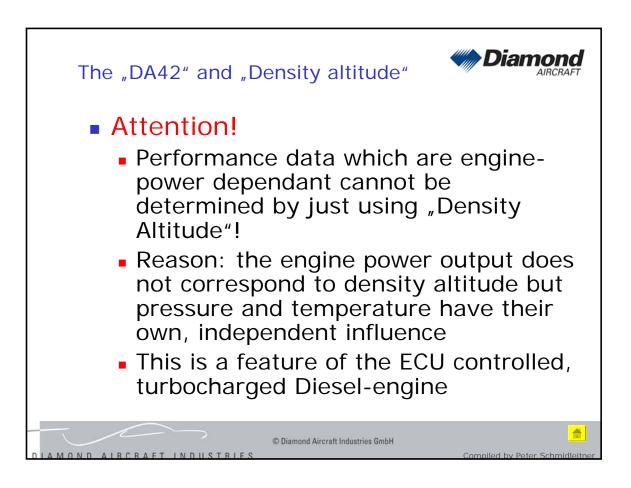




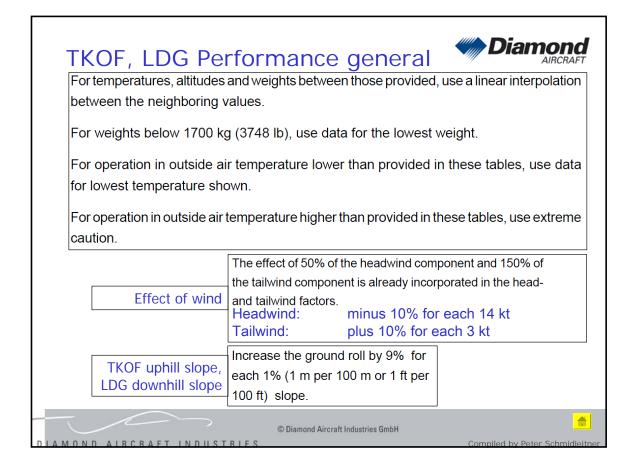


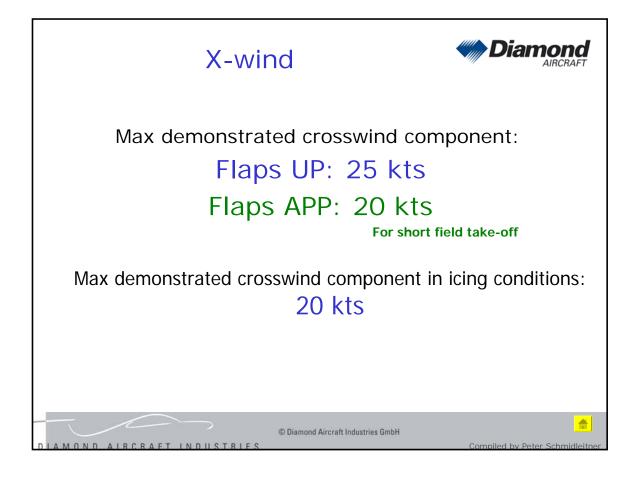






1510) kg				Bank	Angle				
(332	9 lb)	0)°	3	0°	4	5°	6	0°	
Gear	Flaps	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
UP	UP	61	59	66	64	72	71	84	84	
DOWN	APP	58	57	63	62	69	68	81	81	Most forward CG
DOWN	LDG	54	54	60	59	67	65	79	77	Most forward CO
										Power OFF
1700) kg				Bank	Angle				KIAS values may not
(374	8 lb)	0)°	3	0°	4	5°	6	0°	KIAS values may not
Gear	Flaps	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	be accurate at stall
UP	UP	64	62	69	67	75	74	88	88	
DOWN	APP	62	61	67	66	74	73	87	87	
DOWN	LDG	59	58	64	63	71	69	86	83	
1900) kg				Bank	Angle				
(418	9 lb)	0)°	3	0°	4	5°	6	0°	
Gear	Flaps	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
UP	UP	68	66	72	71	80	79	93	94	
DOWN	APP	65	64	70	69	78	77	91	91	
DOWN	LDG	62	61	68	66	75	73	90	87	





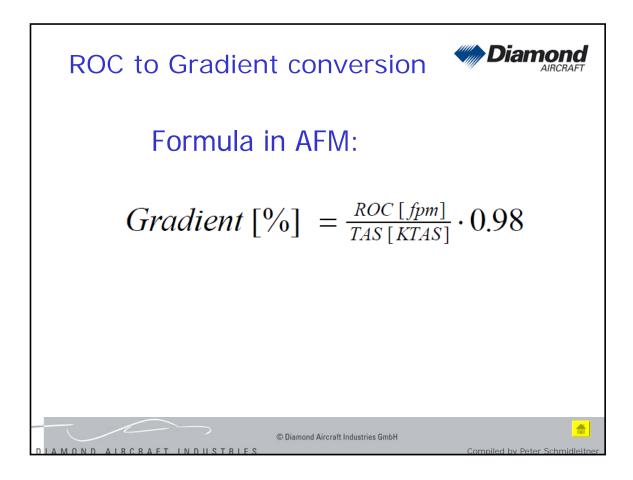
1	ake-Off Dist	ance - N	Normal F	rocedu	re • 1900) kg 41	89 lb			Take-Off Dist	ance - N	lormal P	rocedu	re - 1700) kg / 374	48 lb	
	00 kg / 4189 lb		1		Flaps:				Weight: 17	00 kg / 3748 lb)	1		Flaps:	UP		
v _R : 76	KIAS				Power:	MAX			v _R : 76	KIAS				Power:	MAX		
v ₅₀ : 83	KIAS				Runwa	y: dry, pa	aved, leve	el	v ₅₀ : 83	KIAS				Runwa	y: dry, pa	ved, leve	4
Press. Alt.	Distance		Outside	Air Temp	erature	- [°C] / [°l	F]		Press. Alt.	Distance		Outside	Air Temp	erature	- [°C] / [°F	1	
[ft] / [m]	[m]	0/32	10/50	20/68	30/86	40 / 104	50 / 122	ISA	[ft] / [m]	[m]	0/32	10/50	20/68	30/86	40 / 104	50 / 122	IS/
SL	Ground Roll	369	388	410	444	519	631	400	SL	Ground Roll	324	342	360	389	455	552	350
31	15 m / 50 ft	670	701	730	798	960	1202	716	SL	15 m / 50 ft	574	598	625	680	810	1007	613
1000	Ground Roll	388	410	435	473	566	685	417	1000	Ground Roll	342	360	382	417	497	600	367
305	15 m / 50 ft	701	732	774	854	1053	1308	743	305	15 m / 50 ft	598	625	663	728	885	1092	633
2000	Ground Roll	412	434	462	507	616	742	435	2000	Ground Roll	362	382	405	446	540	650	384
610	15 m / 50 ft	732	769	819	914	1143	1420	773	610	15 m / 50 ft	625	657	698	778	962	1184	661
3000	Ground Roll	433	457	490	547	670	805	456	3000	Ground Roll	382	402	431	479	587	707	401
914	15 m / 50 ft	768	808	864	984	1243	1544	803	914	15 m / 50 ft	659	691	739	837	1045	1283	689
4000	Ground Roll	459	484	522	594	727	873	477	4000	Ground Roll	404	427	457	523	638	763	420
1219	15 m / 50 ft	808	849	920	1074	1350	1667	838	1219	15 m / 50 ft	693	728	784	910	1132	1389	717
5000	Ground Roll	486	514	558	649	788		500	5000	Ground Roll	427	452	490	571	691		439
1524	15 m / 50 ft	849	896	982	1172	1470		874	1524	15 m / 50 ft	728	768	838	995	1231		748
6000	Ground Roll	514	547	596	709	855		523	6000	Ground Roll	452	481	523	621	752		461
1829	15 m / 50 ft	897	950	1048	1280	1595		910	1829	15 m / 50 ft	768	814	893	1084	1334		779
7000	Ground Roll	545	582	637	771	930		549	7000	Ground Roll	479	512	560	678	816		483
2134	15 m / 50 ft	947	1007	1122	1395	1732		951	2134	15 m / 50 ft	810	864	952	1179	1448		815
8000	Ground Roll	578	620	687	837	1007		577	8000	Ground Roll	511	545	603	736	886		507
2438	15 m / 50 ft	999	1071	1208	1518	1880		995	2438	15 m / 50 ft	855	918	1027	1281	1569	/////	853
9000	Ground Roll	615	661	752	919	1105		606	9000	Ground Roll	541	582	661	807	970	/////	532
2743	15 m / 50 ft	1059	1143	1326	1674	2082	/////	1040	2743	15 m / 50 ft	908	977	1130	1407	1731	/////	891
10000	Ground Roll	660	719	837	1028	IIII		638	10000	Ground Roll	581	632	737	903			560
3048	15 m / 50 ft	1133	1249	1499	1907	(////		1094	3048	15 m / 50 ft	972	1064	1267	1591	1111	1111	935
	For the dist					hy by 3.2	<u> </u>		<u> </u>	For the dist	ance in It	t1 divide l	v 0 3048	or multin	bly by 3.28		

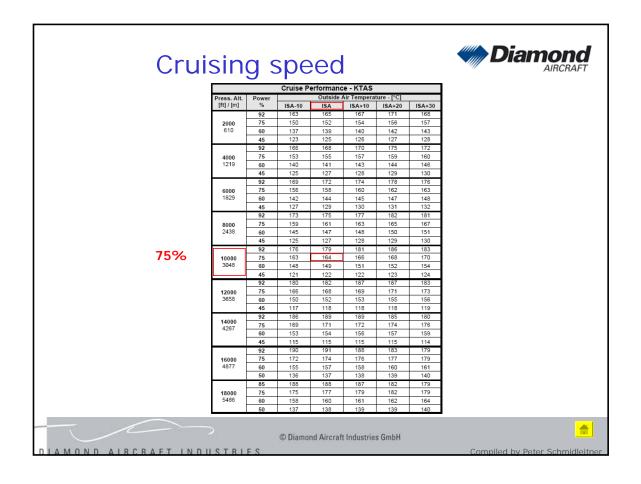
	748 lb	00 kg / 3	lure - 17	Proced	ort Field	ce - Sh	ke-Off Distar	Ta		1189 lb	00 kg 4	lure 19	Proced	ort Field	ice - Sh	ke-Off Distar	Ta
	14015		Flaps:				00 kg / 3748 lb	L				Flaps:				00 kg / 4189 lb	
			Power:				KIAS				MAX					KIAS	
a	ved, level						KIAS	· · ·	al	aved, leve						KIAS	N.
			erature -	Air Temr	Outside		Distance	Press. Alt.			2 - 20 E		Air Temp	Outside		Distance	Press. Alt.
IS		40 / 104		20/68	10/50	0/32	[m]	[ft] / [m]	ISA	-		30/86	20/68	10 / 50	0/32	[m]	[ft] / [m]
31	500	409	347	320	303	286	Ground Roll		354	567	465	394	363	344	324	Ground Roll	
52	867	696	581	534	508	481	15 m / 50 ft	SL	603	1023	814	677	618	587	557	15 m / 50 ft	SL
32	544	449	374	340	320	303	Ground Roll	1000	371	621	508	424	386	364	344	Ground Roll	1000
- 54	950	767	627	569	536	508	15 m / 50 ft	305	630	1124	896	729	658	620	587	15 m / 50 ft	305
- 34	595	490	401	362	341	322	Ground Roll	2000	388	677	557	454	411	384	364	Ground Roll	2000
- 56	1039	839	674	601	565	536	15 m / 50 ft	610	657	1234	987	786	697	655	620	15 m / 50 ft	610
35	648	534	434	387	360	341	Ground Roll	3000	407	738	607	493	439	409	386	Ground Roll	3000
- 59	1137	917	730	641	596	565	15 m / 50 ft	914	686	1357	1082	852	743	690	655	15 m / 50 ft	914
37	706	584	475	413	383	361	Ground Roll	4000	427	806	665	539	469	435	408	Ground Roll	4000
62	1242	1005	801	687	633	596	15 m / 50 ft	1219	718	1486	1190	936	798	733	693	15 m / 50 ft	1219
39		639	520	444	408	384	Ground Roll	5000	448		727	592	505	462	435	Ground Roll	5000
65		1100	879	736	673	632	15 m / 50 ft	1524	755		1308	1033	856	780	735	15 m / 50 ft	1524
41		698	571	476	435	408	Ground Roll	6000	472		794	650	540	494	464	Ground Roll	6000
68		1209	968	793	717	673	15 m / 50 ft	1829	793		1439	1139	923	832	778	15 m / 50 ft	1829
43		762	626	513	466	435	Ground Roll	7000	496		866	712	582	529	493	Ground Roll	7000
71		1325	1066	851	764	713	15 m / 50 ft	2134	833		1585	1257	996	889	826	15 m / 50 ft	2134
46		831	685	556	499	465	Ground Roll	8000	524		949	779	632	567	525	Ground Roll	8000
75		1454	1167	925	819	759	15 m / 50 ft	2438	877		1748	1384	1084	952	881	15 m / 50 ft	2438
48		921	757	612	535	496	Ground Roll	9000	551		1049	860	697	607	562	Ground Roll	9000
79		1626	1298	1025	879	812	15 m / 50 ft	2743	924		1972	1547	1206	1023	943	15 m / 50 ft	2743
51		1111	854	688	585	532	Ground Roll	10000	583			973	784	664	606	Ground Roll	10000
83			1495	1163	969	873	15 m / 50 ft	3048	977			1801	1379	1134	1016	15 m / 50 ft	3048
	3.	y by 3.28	or multip	y 0.3048	t] divide b	ance in [f	For the dista			R	alv by 3.28	or multir	v 0 3048	ft] divide ł	ance in If	For the dist	

Wet grass	TKOF roll	Length of grass
	+ 10%	5 cm
additional + 10%	+ 15%	5 - 10 cm
	+ 25%	>10 cm
e attempted	TKOF should not	> 25 cm
ind !	15% on soft gro	+ 4

_)	ps API	b - Fla	g Clim	peratin	nes O	II Engi	Α					ips UP	nb - Fla	ng Clin	perati	ines O	All Eng			
_	r: 92%	Power			-					s: APP	Fla	: 92%	Power								s: UP	Flag
cte	retrac	Gear:							AS	85 KI	ted v _y :	retrac	Gear:							IAS	90 KI	v _y :
		1	- [ft/mir	Climb	Rate of	F					[q]		1	[ft/min	Climb -	Rate of	1					5
		[°F]	- I°C1/	erature	r Temp	side Ai	Out		Press.	Press.			[°F]	- I°C1/	erature	ir Temp	tside Ai	Out		Press.	Press.	[q] / [l
1.					<u> </u>				Alt.	Alt.	t [kg]			<u> </u>						Alt.	Alt.	t [kg]
15	50 122	40 104	30 86	20 68	10 50	0 32	-10 14	-20 -4	[m]	[ft]	ISA Neight	50 122	40 104	30 86	20 68	10 50	0 32	-10 14	-20 -4	[m]	[ft]	Weight
11	888	1054	1115	1124	1134	1144	1154	1165	L	S	1203	964	1132	1195	1201	1205	1208	1212	1215	SL.	s	
11	811	967	1094	1104	1113	1124	1134	1145	610	2000	1193	897	1055	1183	1187	1193	1201	1205	1208	610	2000	
10	742	891	1050	1079	1093	1103	1113	1124	1219	4000	1181	834	987	1147	1172	1179	1186	1193	1201	1219	4000	
10	444	822	979	1054	1064	1077	1092	1103	1829	6000	1169 8	////	921	1083	1159	1165	1172	1179	1186	1829	6000	88
10	ЧH.	751	906	1020	1033	1048	1062	1077	2438	8000	1158		862	1018	1139	1150	1157	1164	1172	2438	8000	4
10	HH.	////	783	958	1006	1017	1031	1047	3048	10000	1158 681 F / 006		444	906	1083	1132	1138	1149	1157	3048	10000	006
9	HH	////	629 463	802	978 780	989 917	999 977	1016 987	3658 4267	12000 14000	1124	ΗA	444	759	936	1114	1120	1125	1137	3658	12000	÷
9	HH.	<i>###</i>	463	604 467	618	769	887	965	4267	14000	1113	HHA	HH.	597	740 612	920 763	1058 915	1113 1032	1118 1108	4267 4877	14000 16000	
8	HH	₩₩	╢╢	329	481	632	739	835	5486	18000	986	HA	₩₩	₩₩	486	639	789	892	984	5486	18000	
12	1023	1211	1279	1289	1299	1309	1320	1331		s	1378	1109	1299	1371	1376	1380	1382	1386	1389	SL SL		
12	937	1114	1257	1268	1278	1288	1299	1310	610	2000	1368	1035	1214	1358	1362	1369	1376	1380	1383	610	2000	
12	862	1030	1210	1242	1257	1267	1277	1289	1219	4000	1357	965	1139	1320	1348	1355	1361	1369	1376	1219	4000	
12	////	953	1131	1216	1226	1240	1256	1267	1829	6000	1345 👦		1066	1249	1335	1341	1347	1355	1362	1829	6000	~
12		875	1050	1180	1193	1209	1224	1240	2438	8000	1334		1001	1177	1314	1326	1333	1340	1347	2438	8000	3748
11			914	1111	1165	1176	1192	1208	3048	10000	1320			1053	1252	1308	1314	1325	1333	3048	10000	00
11			743	938	1136	1148	1158	1175	3658	12000	1299			890	1089	1290	1296	1301	1313	3658	12000	170
11			558	718	916	1069	1135	1146	4267	14000	1289			710	872	1075	1229	1290	1294	4267	14000	
11				566	737	907	1036	1122	4877	16000	1278				730	901	1072	1201	1285	4877	16000	
9		////		414	585	755	874	980	5486	18000	1151				591	764	933	1047	1149	5486	18000	
	J8.	/ 0.0050	ultiply b	.8 or m	by 196	s] divide	o in [m/s	of clim	r the rate	Fo		D8.	y 0.005	ultiply b	6.8 or m	e by 196	s] divide	b in [m/	e of clim	or the rate	F	

	fo					perativ				9		Ainch	AFT
Flaps:	IIP		Olle	Engin	es mo	perativ	e ciiii		ver: fea	thered	/ 92%		
V _{YSE} :	85 KIAS								r: ret		1 32 /0		
					F	Rate of	Climb	- Ift/mi	nl				
1/16	Press.	Press.						-	-				
t [kg	Alt.	Alt.				r Temp		<u> </u>	1				
Veight [kg] / [lb]	[ft]	[m]	-20 -4	-10 14	0 32	10 50	20 68	30 86	40 104	50 122	ISA		
	s	L	324	312	300	289	278	268	240	171	284		
	2000	610	301	289	277	266	255	244	191	127	265		
	4000	1219	278	266	254	242	229	213	147	85	246		
0	6000	1829	254	242	227	214	202	171	105	////	223		
900 / 4189	8000	2438	227	213	198	184	172	126	61	444	199		
006	10000	3048	198	182	168	155	132	57		XIII	175		
÷	12000	3658	167	151	138	125	47	-27	<i>\}}</i>	¥##	149		
	14000	4267	136	123	86	-73	-59 -138	-119	¥##	₩	126		
	16000	4877 5486	108 27	62 -28	-3 -87	-73	-130	¥##	<i>\}}</i>	¥##	101 29		
	10000 S		407	394	382	371	360	348	317	238	365		
	2000	610	383	371	359	347	336	324	263	189	346		
	4000	1219	359	347	334	322	309	291	215	143	326		
	6000	1829	335	322	307	293	281	244	168	////	302		
3746	8000	2438	307	291	276	261	249	195	121	////	278		
1700 / 3748	10000	3048	276	260	245	231	206	119			252		
4	12000	3658	244	227	214	200	111	26			225		
1	14000	4267	212	198	158	81	-6	-75		<i>////</i>	201		
	16000	4877	183	133	62	-18	-92	////	<i>\///</i>	444	176		
	18000	5486	96	35	-30	-104	-180				98		
		ark shad he rate c								18.			





		Landing	Distance	e - Flaps	LDG 1	1900 kg	/ 4189 lb)	
	Weight:	1900 kg / 41	89 lb		_	Flaps:	LDG		
	VREF:	84 KIAS				Power:	IDLE		
						Runway	y: dry, pa	ved, leve	1
	Press. Alt.	Distance		Outside	Air Temp	erature -	- [°C] / [°F	-]	
	[ft] / [m]	[m]	0/32	10/50	20/68	30/86	40 / 104	50 / 122	ISA
Elans I DC	SL	Ground Roll	349	363	376	387	419	472	369
Flaps LDG		15 m / 50 ft	592	610	627	646	695	778	618
-	1000	Ground Roll	363	377	388	402	443	495	381
	305	15 m / 50 ft	610	628	647	666	729	817	634
	2000	Ground Roll	377	389	403	417	465	523	390
	610	15 m / 50 ft	628	648	667	686	766	856	650
	3000	Ground Roll	389	404	416	435	492	551	402
	914	15 m / 50 ft	649	669	689	715	804	900	667
	4000	Ground Roll	404	417	432	460	519	578	415
	1219	15 m / 50 ft	669	691	711	751	847	945	684
	5000	Ground Roll	417	433	449	486	545		426
	1524	15 m / 50 ft	691	712	733	793	890		702
	6000	Ground Roll	434	451	466	512	577		439
	1829	15 m / 50 ft	713	735	760	834	934		720
	7000	Ground Roll	457	471	489	546	614		456
	2134	15 m / 50 ft	745	769	792	885	989		749
	8000	Ground Roll	486	504	527	595	668		484
	2438	15 m / 50 ft	788	813	844	951	1062		786
	9000	Ground Roll	525	545	577	653	729		519
	2743	15 m / 50 ft	838	864	915	1029	1149		831
	10000	Ground Roll	569	590	639	718			561
	3048	15 m / 50 ft	897	924	995	1118			882
		For the dist	ance in [f	t] divide k	y 0.3048	or multip	ly by 3.28	3.	

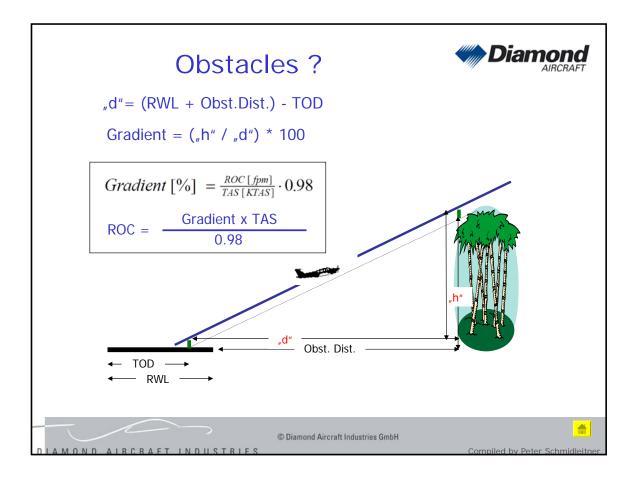
	Landing	Distanc	e - Flaps	LDG - '	1805 kg	/ 3979 lt	b			Landing	Distanc	e - Flaps	LDG - 1	1700 kg	/ 3748 lt	5	
Weight:	1805 kg / 397	79 lb			Flaps:	LDG			Weight:	1700 kg / 37	48 lb			Flaps:	LDG		_
VREF:	84 KIAS				Power:	IDLE			VREF:	84 KIAS				Power:	IDLE		
					Runwa	y: dry, pa	aved, leve	el						Runwa	y: dry, pa	aved, leve	a l
Press. Alt.	Distance		Outside	Air Temp	erature	- [°C] / [°F	F1		Press. Alt.	Distance		Outside	Air Temp	erature	- [°C] / [°F	F]	_
[ft] / [m]	[m]	0/32		20/68			50 / 122	ISA	[ft] / [m]	[m]	0/32	10/50	20/68	30/86	40 / 104	50 / 122	15
	Ground Roll	334	347	360	370	401	451	353		Ground Roll	318	330	341	353	379	427	33
SL	15 m / 50 ft	573	590	607	625	672	753	598	SL	15 m / 50 ft	549	565	583	599	646	723	57
1000	Ground Roll	347	360	371	384	423	473	364	1000	Ground Roll	330	341	354	363	401	451	3
305	15 m / 50 ft	590	608	626	644	705	790	613	305	15 m / 50 ft	565	584	601	618	677	757	-5
2000	Ground Roll	360	371	385	399	445	500	373	2000	Ground Roll	341	354	365	377	424	473	- 3
610	15 m / 50 ft	608	627	645	663	741	827	629	610	15 m / 50 ft	584	602	620	637	710	794	6
3000	Ground Roll	372	386	400	415	470	528	385	3000	Ground Roll	355	365	379	396	445	499	3
914	15 m / 50 ft	628	646	665	691	777	866	645	914	15 m / 50 ft	602	621	639	663	746	832	6
4000	Ground Roll	386	401	413	440	494	553	397	4000	Ground Roll	366	380	394	416	470	527	3
1219	15 m / 50 ft	647	667	687	726	816	909	661	1219	15 m / 50 ft	622	640	659	697	782	871	6
5000	Ground Roll	399	414	429	463	522		407	5000	Ground Roll	380	392	406	441	494		- 38
1524	15 m / 50 ft	668	689	709	764	856		679	1524	15 m / 50 ft	641	661	680	732	822		6
6000	Ground Roll	415	431	444	490	552		420	6000	Ground Roll	393	408	423	463	522		3
1829	15 m / 50 ft	690	710	732	803	898		696	1829	15 m / 50 ft	662	682	702	770	862		6
7000	Ground Roll	435	451	465	523	588		437	7000	Ground Roll	414	428	443	498	557		4
2134	15 m / 50 ft	719	741	764	852	952		721	2134	15 m / 50 ft	689	711	732	816	914		69
8000	Ground Roll	466	484	503	571	638		465	8000	Ground Roll	443	460	481	542	609		44
2438	15 m / 50 ft	760	783	814	917	1025		758	2438	15 m / 50 ft	731	753	782	881	984		73
9000	Ground Roll	506	522	556	626	703		500	9000	Ground Roll	482	501	530	600	674		4
2743	15 m / 50 ft	809	835	884	995	1109	1111	802	2743	15 m / 50 ft	780	804	851	957	1067		7
10000	Ground Roll	550	570	615	694	/////		540	10000	Ground Roll	527	547	592	665	/////		52
3048	15 m / 50 ft	868	894	964	1082			855	3048	15 m / 50 ft	839	864	930	1045	1////	1111	83
	For the dist	ance in F	ft divide l	w 0.3048	or multir	Jy by 3.2	8			For the dist	ance in f	f1 divide l	ov 0.3048	or multin	ly by 3 2	8	-

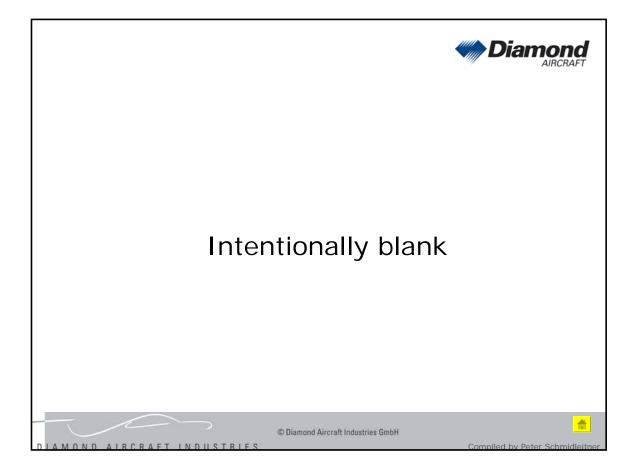
LDG Roll, LDG Dis	tan	се				Dia	am	ON AIRCRA	d AFT
	Lai	nding Distan	ce - Abr	ormal F	lap Posi	ition - 19	900 kg /	4189 lb	
	Weight:	1900 kg / 418	39 lb			Flaps:	APP or	r UP	
	VREF:	86 KIAS				Power:	IDLE		
						Runwa	y: dry, pa	aved, leve	1
	Press. Alt.	Distance		Outside	Air Temp	perature	- [°C] / [°I	F1	
	[ft] / [m]	[m]	0/32	10/50	20/68			50 / 122	ISA
Elana ADD or LID		Ground Roll	482	499	515	533	577	647	508
Flaps APP or UP	SL	15 m / 50 ft	813	837	863	887	954	1070	849
	1000	Ground Roll	500	516	535	553	607	683	522
	305	15 m / 50 ft	837	864	889	913	1002	1121	871
	2000	Ground Roll	516	536	553	572	642	718	538
	610	15 m / 50 ft	864	890	918	943	1051	1176	893
	3000	Ground Roll	536	554	574	599	675	757	552
	914	15 m / 50 ft	891	919	946	981	1105	1232	917
	4000	Ground Roll	554	575	594	631	710	796	569
	1219	15 m / 50 ft	920	948	977	1032	1161	1292	940
	5000	Ground Roll	576	595	617	666	751		587
	1524	15 m / 50 ft	949	979	1007	1086	1217		963
	6000	Ground Roll	596	619	639	704	790		603
	1829	15 m / 50 ft	980	1010	1041	1141	1279		990
	7000	Ground Roll	627	648	672	751	845		630
	2134	15 m / 50 ft	1024	1056	1087	1215	1357		1027
	8000	Ground Roll	669	694	722	818	915		669
	2438	15 m / 50 ft	1087	1119	1164	1309	1464		1082
	9000	Ground Roll	721	746	793	894	1002		714
	2743	15 m / 50 ft	1157	1194	1262	1421	1584		1147
	10000	Ground Roll	782	808	872	984			769
	3048	15 m / 50 ft	1242	1281	1381	1548			1224
		For the dist	ance in [i	ft] divide k	y 0.3048		oly by 3.2	8.	
	ircraft Indust	ries GmbH			Com	niled by	v Potor	Schmid	
ULAMUNU AIKUKAFI INDUSIBIES					Com	oned by	v Peter	Schmid	lienther

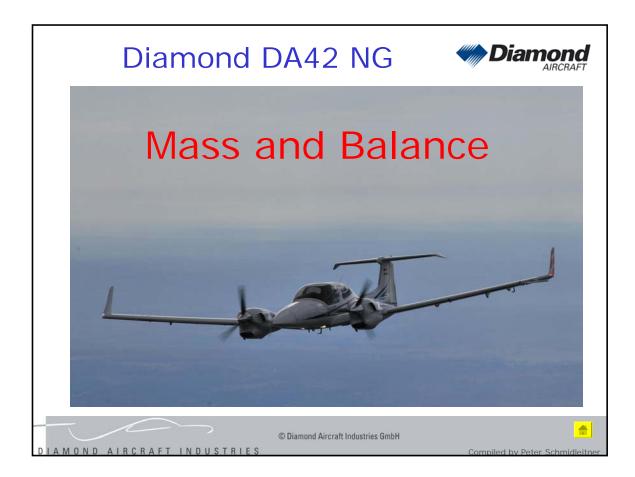
La	nding Distan	ce - Abr	ormal F	lap Pos	ition 1	805 kg /	3979 lb		La	nding Distan	ce - Abr	ormal F	lap Posi	ition 1	700 kg /	3748 lb	
Weight:	1805 kg / 397	79 lb		<u> </u>	Flaps:	APP of	r UP		Weight:	1700 kg / 37			· · ·		APP of		
VREF:	86 KIAS				Power:	IDLE			VREE:	86 KIAS				Power:	IDLE		
· M2							aved, leve	al	· MEF.							aved, leve	
Press. Alt.	Distance		Outside	Air Tem		- [°C] / [°f			Press. Alt.	Distance		Outside	Air Temp				-
[ft] / [m]	[m]	0/32	10/50	· · ·		40 / 104	<u> </u>	ISA	[ft] / [m]	[m]	0/32	10/50	20/68			50 / 122	IS
	Ground Roll	462	477	494	511	551	621	485		Ground Roll	439	453	470	486	524	590	46
SL	15 m / 50 ft	780	804	827	850	916	1025	816	SL	15 m / 50 ft	746	770	791	813	876	981	78
1000	Ground Roll	477	495	513	528	582	652	500	1000	Ground Roll	453	470	487	502	553	619	47
305	15 m / 50 ft	804	828	852	877	961	1076	835	305	15 m / 50 ft	770	792	815	839	919	1029	79
2000	Ground Roll	495	514	530	548	613	688	516	2000	Ground Roll	471	488	503	521	582	653	49
610	15 m / 50 ft	829	853	879	904	1010	1127	856	610	15 m / 50 ft	793	816	841	865	965	1078	81
3000	Ground Roll	514	531	550	572	647	723	529	3000	Ground Roll	489	504	523	543	615	686	50
914	15 m / 50 ft	854	881	906	942	1059	1182	879	914	15 m / 50 ft	817	843	867	901	1012	1131	84
4000	Ground Roll	532	552	569	605	681	763	546	4000	Ground Roll	505	524	540	575	646	724	51
1219	15 m / 50 ft	882	908	936	989	1112	1239	901	1219	15 m / 50 ft	844	869	895	946	1064	1184	86
5000	Ground Roll	552	571	591	638	720		560	5000	Ground Roll	525	542	561	606	683		53
1524	15 m / 50 ft	909	938	966	1041	1167		925	1524	15 m / 50 ft	870	897	923	995	1115		88
6000	Ground Roll	572	593	612	675	757		578	6000	Ground Roll	543	563	581	641	719		54
1829	15 m / 50 ft	940	968	998	1093	1226		948	1829	15 m / 50 ft	899	926	954	1045	1172		90
7000	Ground Roll	599	622	642	720	810		602	7000	Ground Roll	572	591	613	685	770		57
2134	15 m / 50 ft	983	1013	1044	1165	1302		987	2134	15 m / 50 ft	939	969	997	1114	1245		94
8000	Ground Roll	643	667	694	786	880		641	8000	Ground Roll	613	636	662	749	838		61
2438	15 m / 50 ft	1044	1075	1118	1258	1406		1041	2438	15 m / 50 ft	1000	1031	1071	1205	1347		99
9000	Ground Roll	693	719	762	862	963		688	9000	Ground Roll	666	688	732	825	925		65
	15 m / 50 ft	1116	1150	1217	1368	1527		1104	2743	15 m / 50 ft	1071	1105	1168	1314	1465		10
2743		755	783	844	953	/////		742	10000	Ground Roll	727	753	812	917			71
2743 10000	Ground Roll	/55	100														

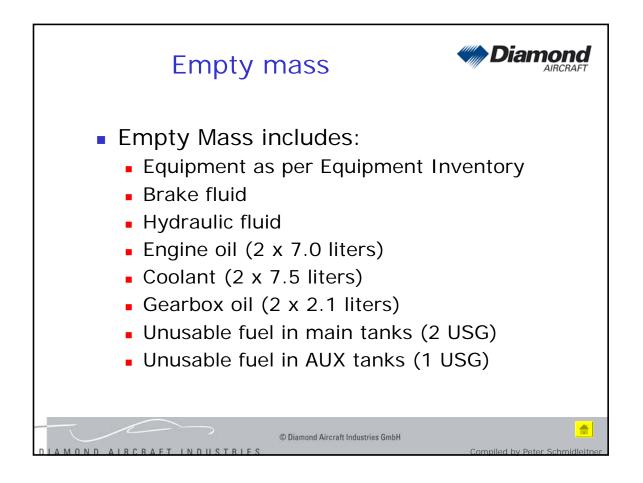
	LDG roll	
Paved RWY WET	+ 15%	
Length of grass		Wet grass or soft ground
- 5 cm	+ 10%	
5 - 10 cm	+ 15%	additional + 10%
>10 cm	min + 25%	

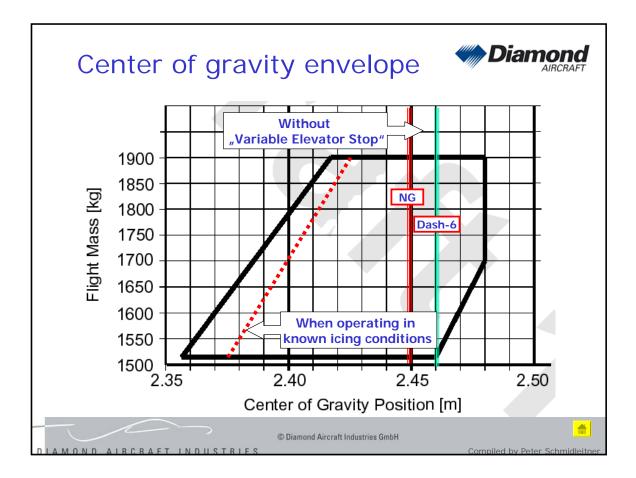
			Go-/	Around	d Clim	b Perfo	ormand	ce				
Flaps:	LDG								Power	: MAX		
V _{REF} :	84 KIAS								Gear:	exten	ded	
[9]					I	Rate of	Climb	- [ft/miı	n]			α to solve $POC[fum]$ and
]/[6	Press.	Press.		Out	side Ai	r Temp	erature	e - [°C] /	/ [°F]			Gradient [%] = $\frac{ROC [fpm]}{TAS [KTAS]} \cdot 0.98$
ht [k	Alt.	Alt. [m]	-20	-10	0	10	20	30	40	50	ISA	
Weight [kg] / [lb]	1.4	[]	-4	14	32	50	68	86	104	122		The angles of climb at MSL and ISA condition are:
~	s	iL	735	718	702	686	670	605	472	328	678	4.7° for Maximum Take-Off Mass (1900 kg / 4189 lt
6	2000	610	703	686	669	653	620	527	377	242	652	4.7 IOI MAXIMUM TAKE-ON Mass (1900 Kg / 4169 K
900 / 4189	4000	1219	670	653	636	615	558	441	292	163	622	5.1° for Maximum Landing Mass (1805 kg / 3979 lb
/ 00	6000	1829	637	614	592	560	486	348	210		585	
19	8000	2438	592	569	546	505	414	266	134		548	
	10000	3048	545	521	487	417	291	136			509	
	s	L	794	777	760	744	728	659	518	366	735	Required gradient acc. CS 23.77 (a):
6	2000	610	761	744	726	710	675	578	420	276	708	3,3% at Sea Level
3979	4000	1219	727	709	693	671	611	488	330	193	677	
805 /	6000	1829	693	670	647	614	536	390	244		640	
18	8000	2438	647	623	600	557	462	304	165		602	
	10000	3048	599	574	539	465	333	169			562	
		L	866	848	831	814	797	725	575	413	805	
<u>.</u>	2000	610	832	814	796	779	743	640	471	317	777	
00 / 3748	4000	1219	797	779	761	739	676	545	376	229	746	
00	6000	1829	762	738	714	680	598	442	286		707	
17	8000	2438	714	689	665	620	520	351	202		667	
	10000	3048	664	639	602	524	383	208	////	////	626	
	Fort	the rate o	of climb	in [m/s]	divide	by 196.	8 or mu	Itiply by	/ 0.0050	08.		





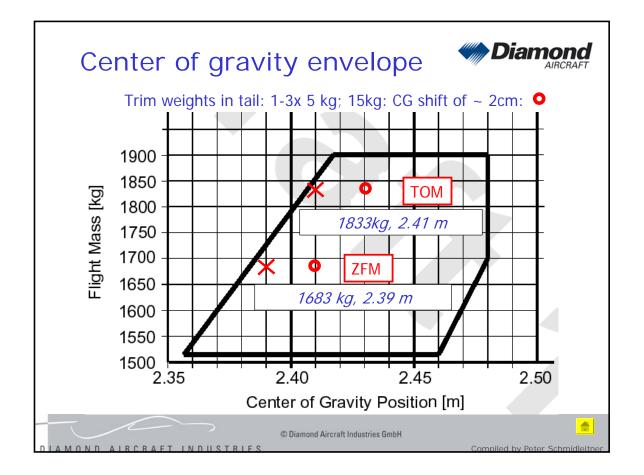






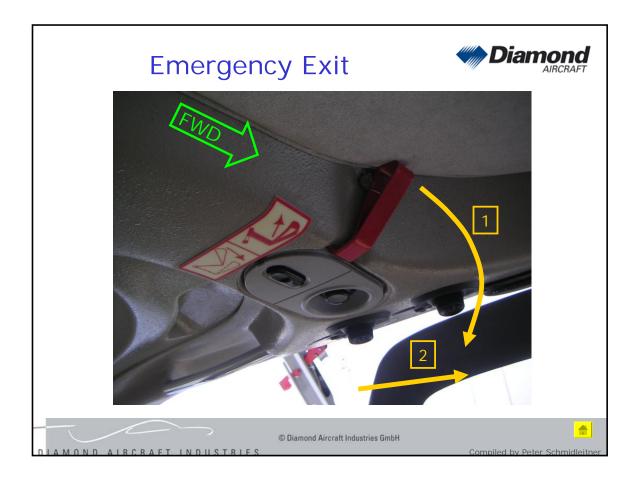
Moment arms		AIRC
Item	Lever Arm (m)	
Front seats	2.30	
Rear seats	3.25	
Wing tanks	2.63	
AUX tanks	3.20	
De-icing fluid	1.00	
Nose baggage	0.60	
Cabin baggage	3.89	
Baggage Extension	4.54	
"Short baggage extension":		
Cabin baggage	3.65	
Baggage Extension	3.97	

M&B calo			″ А
	Lever arm	Mass (kg)	Moment (kgm
Empty mass		1450	3488.0
Front seats	2.30	170	391.0
Rear seats	3.25	0	0.0
Nose baggage	0.60	0	0.0
Cabin baggage	3.89	30	116.7
Baggage extension	4.54	0	0.0
De-icing fluid	1.00	33	33.0
Zero Fuel Mass	2.39	1683	4028.7
Fuel (main tanks)	2.63	150	394.5
Fuel (AUX tanks)	3.20		
Total TKOF Mass	2.41	1833	4423.2

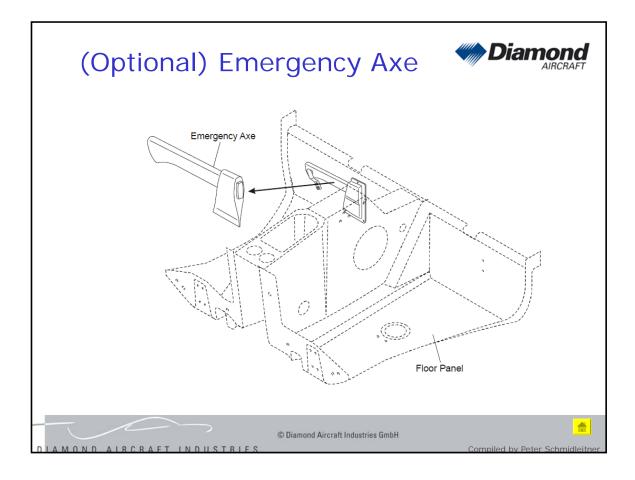


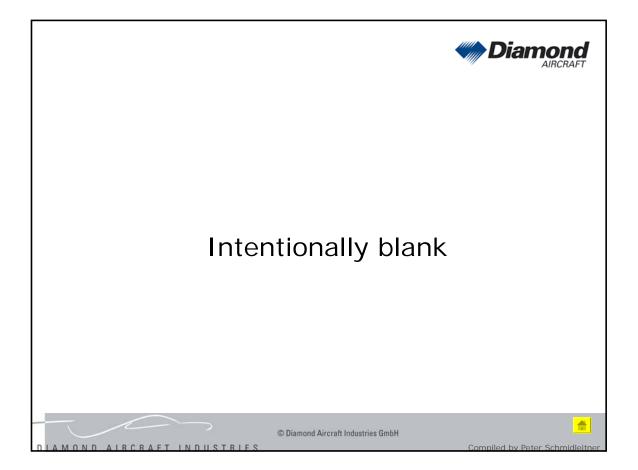






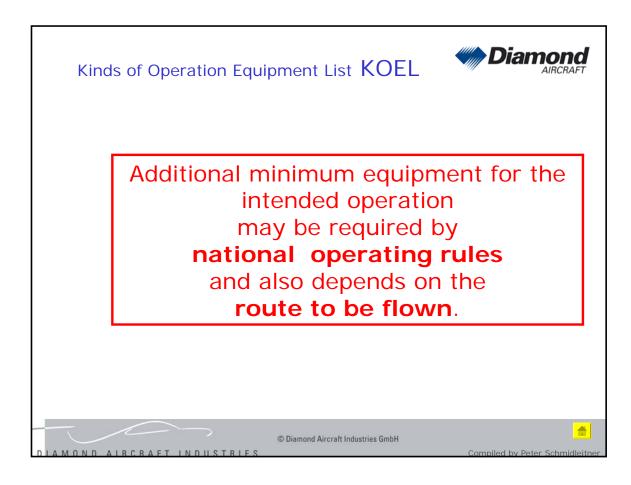








for daytime VFR flights	in addition for night VFR flights * vertical speed	in addition for IFR flights * second airspeed
Flight & * airspeed indicator (on G1000 PFD or backup) * altimeter (on G1000 PFD or backup) * magnetic compass * 1 headset, used by pilot in command	 vertical speed indicator (VSI) * 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 (part of G1000) 	 second allspeed 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 (part of G1000)



engine instru- ments * fuel qty. (2x) * ammeter * voltmeter * voltmeter * oil temp. (2x) * coolant temp. (2x) * coolant level indicator (2x) * gearbox temp. (2x) * load (2x) * prop. RPM (2x) * fuel temp. left & right * ammeter * voltmeter * vo	for daytime VFR flights	in addition for night VFR flights	in addition for IFR flights
<pre>ments * oil press. (2x) * voltmeter * oil temp. (2x) * coolant temp. (2x) * coolant level indicator (2x) * gearbox temp. (2x) * load (2x) * prop. RPM (2x)</pre>	* fuel qty. (2x)	* ammeter	
 * oil temp. (2x) * coolant temp. (2x) * coolant level indicator (2x) * gearbox temp. (2x) * load (2x) * prop. RPM (2x) 	 * oil press. (2x)	* voltmeter	
 * coolant level indicator (2x) * gearbox temp. (2x) * load (2x) * prop. RPM (2x) 	 * oil temp. (2x)		
indicator (2x) * gearbox temp. (2x) * load (2x) * prop. RPM (2x)	* coolant temp. (2x)		
* load (2x) * prop. RPM (2x)			
* prop. RPM (2x)	* gearbox temp. (2x)		
	* load (2x)		
* fuel temp. left & right	* prop. RPM (2x)		
tank	* fuel temp. left & right tank		

Kinds	s of Op	eration Equipr	ment List KOEL	
		for daytime VFR flights	in addition for night VFR flights	in addition for IFR flights
	lighting		 * position lights * strobe lights (anti collision lights) * landing light * instrument lighting * flood light * flashlight 	
DIAMONDAI	R C R A F T	C INDUSTRIES	Diamond Aircraft Industries GmbH	Compiled by Peter Schmidleitne

for daytime V flights
other opera- tional mini- mum equip- ment * stall warning sy variable elevato stop * alternate means fuel quantity indication (see Section 7.9) * safety belts for occupied seat * Airplane Flight Manual



