

Manual & POH



X-Plane A300-600ST Beluga Package

A300-600ST Beluga



About this Manual

This manual does not cover all of the aspects required to fly the airplane, but tries to clarify items which may be named differently in the panel and therefore need an explanation.

The Autopilot

The autopilot can be engaged or disengaged at wish by switching the selector above the Navigation Source Selector. Or using the AP 1 switch on the far right of the autopilot board. Position OFF means off. If ON is selected, the autopilot controls the cue in the artificial horizon but you fly the aircraft manually, so the artificial horizon indication matches the cue. AUTO means the autopilot controls the aircraft. (Fig.1)

A/THR

Activates the auto-throttle to maintain the speed selected in the SPD/MACH display shown above the speed selector knob. (Fig.2)

ALT/HLD

If activated this pitches the aircraft to hold the current altitude. To reach a new target altitude you need to dial in the new altitude and either press LVL/CH or V/S. The second requires to select a new vvi (vertical velocity index). The aircraft will then climb or descend at the vvi selected in the V/S display shown above the vertical speed selector. (Fig.2)

LVL/CH

If engaged, this levels-off the aircraft at the altitude indicated in the ALT SEL display and selected with ALT/HLD without requiring any V/S mode engagement. Dial in a new altitude and press LVL CHG to start a climb or descent. (Fig.2)

V/NAV

This activates vertical navigation only related to the FMC (Flight Management Computer). If engaged, this pitches the aircraft to follow a vertical path described by the altitudes entered in the FMC. (Fig.2)

HDG SEL

If engaged, this holds the aircraft to the heading as shown in the display located above the HDG SEL knob. (Fig.3)



Fig.1



Fig.2



Fig.3

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Fig.4



Fig.5



Fig.6



Fig.7



Fig.8

NAV

When pressed, this activates the LOC mode, that guides the aircraft along a selected radial towards a VOR navigation aid or an ILS localizer. When established the light turns from amber to yellow. (Fig.4)

When NAV, together with V/NAV is activated and autopilot source is directed to the FMC (Flight Management Computer), the autopilot will then guide the aircraft along the legs of the loaded flight plan. (Fig.5)

V/S

This engages the autopilot to hold a constant vertical velocity. The present vvi (vertical velocity index) is shown in the display above the vertical speed selector knob. (Fig.6)

LAND

When selected this engages a glide slope capture, but only when an ILS localizer is tuned in and the signal is established. If established the light turns from amber to yellow. (Fig.6)

Cargo-door

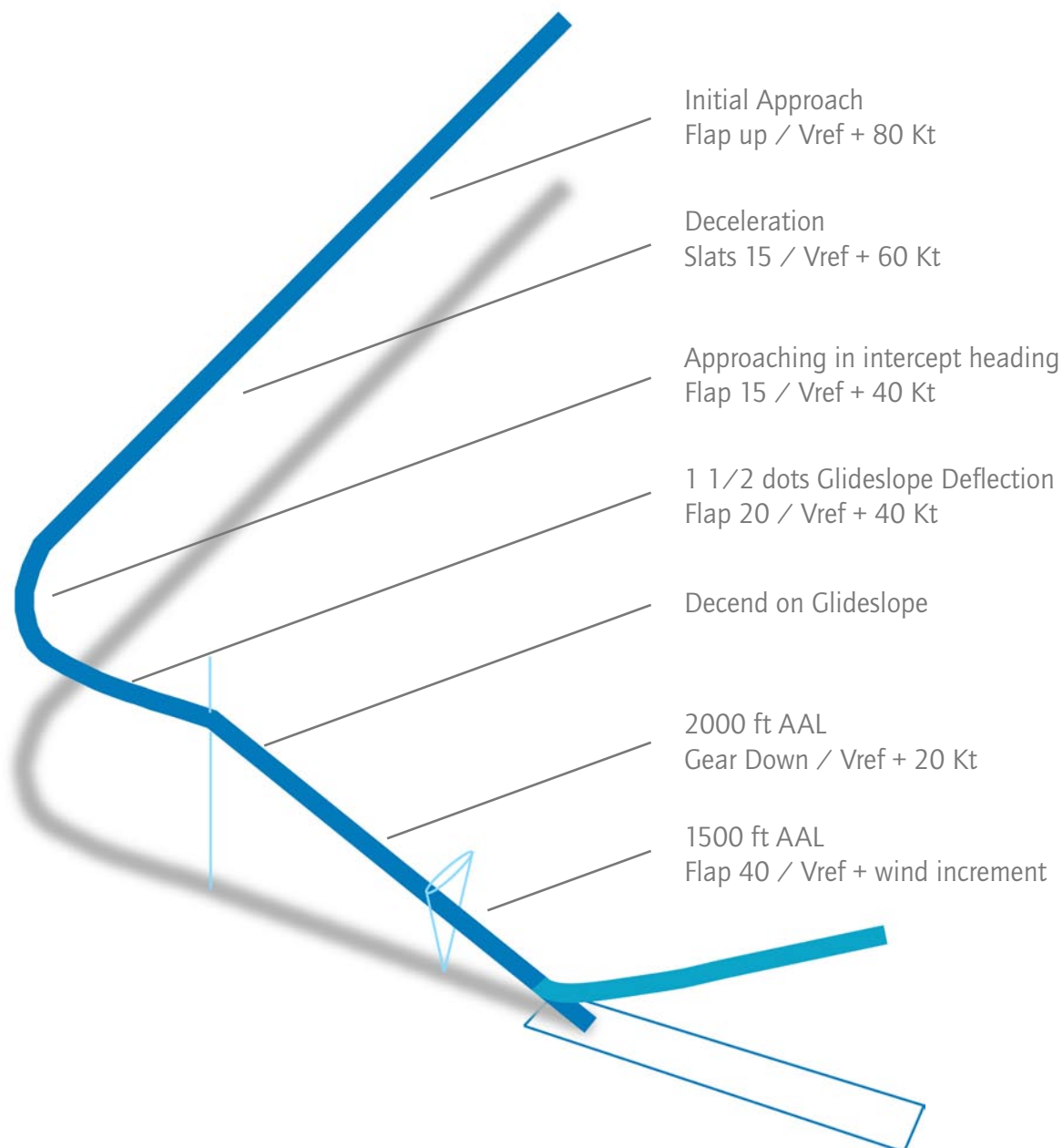
When you enter the flightdeck with or without the systems running, you will find the cargo-door in the open position. To close it pull the handle fully down. CLOSE should not be legible now. To lock the handle press the DOOR LK button. (Fig.7)

If you have additional control equipment attached when flying in x-plane, you could also assign a switch to open and close the cargo-compartment. In the x-plane settings menu, choose joystick and equipment and assign your external switch to vector/sweep. (Fig.8)

A300-600ST Beluga

A300-600 ILS Approach

Radar vectored to ILS



Flap Extension Schedule

Select next Flap setting when within 20 Kts of the manoeuvre speed for that setting and decelerating.

Missed Approach

Go-around thrust
Go-around attitude
Flap 20
At positive climb Gear up
At Aa Climb Power
Retract Flap on schedule

Source: 757.org.uk, Airbus

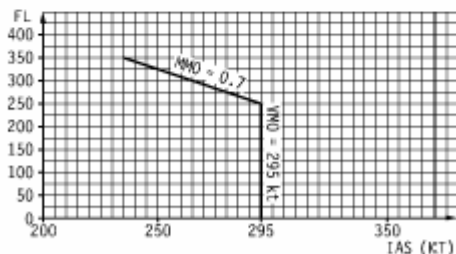
MAXIMUM OPERATING SPEEDS (V_{MO})

MMO (Maximum Operating Mach)

M 0.7

VMO (Maximum Operating Speed)

295 Kt



MAXIMUM OPERATING ALTITUDE

35,000 ft.

MAXIMUM FLAPS/SLATS SPEEDS (V_{FE})

SLATS (°)	FLAPS (°)	VFE (kt)
15	0	250
15	15	215
15	20	205
30	40	175

GEAR OPERATING SPEEDS

V_{LO} Gear extension	270 Kt	M 0,59
V_{LE} Landing gear extended	270 Kt	M 0.65
V_{LO} Gear retraction	240 Kt	M 0.53

Tire Speed Limit (Ground speed limit)

195.5 KCAS (225 mph)

VMCA - VMCG

Inflight – VMCA 120 KCAS

Take off – VMCG 117 KCAS

WEIGHT LIMITATIONS

MTOW (max takeoff)	155,000 kg	341,700 lb
MLW (max landing)	140,000 kg	308,644 lb
MZFW (max zero fuel)	133,500 kg	294,314 lb
Minumum Flight Weight	90,000 kg	198,410 lb

Max payload	47,000 kg	103,615 lb
OWE (operating weight empty)	86,500 kg	190,699 lb

MINIMUM CREW

For all flights: 2 pilots

 A300-600ST FLIGHT CREW OPERATING MANUAL	TAKE OFF					
	TAKE OFF SPEEDS				PAGE 2	

V2 VERSUS WEIGHT AND V2/VSR RATIO - SLATS 15/FLAPS 20
 V2/VSR
 V2 (KT IAS)

WEIGHT (1000Kg)	1.15	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.30
155	146	148	150	153	155	158	160	163	165
150	144	145	147	150	152	155	157	160	162
145	141	142	145	147	150	152	155	157	159
140	138	140	142	144	147	149	152	154	156
135	136	137	139	142	144	146	149	151	153
130	133	134	137	139	141	144	146	148	150
125	133	133	134	136	138	141	143	145	147
120	133	133	133	133	136	138	140	142	144
115	133	133	133	133	133	135	137	139	141
110	133	133	133	133	133	133	134	136	138
105	133	133	133	133	133	133	133	133	136
100	133	133	133	133	133	133	133	133	133
95	133	133	133	133	133	133	133	133	133
90	133	133	133	133	133	133	133	133	133

MINIMUM SPEEDS:
 V1 MIN : 123kt IAS (VMCG limitation)
 VR MIN : 127 kt IAS (1.05 VMCA)



Limited by 1.1 VMCA

 A300-600ST FLIGHT CREW OPERATING MANUAL	CLIMB			
			PAGE 3	
	CLIMB CHART 2 ENGINES			

CLIMB 250KT/280KT/M.68										
MAX CLIMB THRUST ECONOMIC AIR CONDITIONING ANTI ICING OFF				ISA			FROM BRAKES RELEASE POINT TIME (MN) FUEL (KG) DIST (NM) TAS (KT)			
FL	WEIGHT AT BRAKES RELEASE (1000KG)									
	90	100	110	120	130	140	150	153	160	
350	10 1170 55 338	11 1975 64 339	13 2218 74 341	15 2520 87 344	18 2925 105 349					
330	9 1676 50 332	10 1858 57 333	12 2068 65 335	13 2315 74 337	15 2619 86 340	18 3012 102 344	22 3581 126 350			
310	8 1588 45 327	9 1753 51 327	11 1940 58 329	12 2155 65 330	13 2408 74 333	15 2716 85 336	18 3105 100 339	19 3243 105 341	21 3628 121 344	
290	8 1503 40 320	9 1654 46 321	10 1824 52 322	11 2016 58 323	12 2238 65 325	14 2500 74 328	15 2815 85 331	16 2923 89 331	18 3205 99 334	
270	7 1420 36 313	8 1558 51 314	9 1713 46 315	10 1888 52 316	11 2087 58 317	12 2317 65 320	14 2588 74 322	14 2678 77 323	16 2910 85 324	
250	6 1392 32 304	7 1455 36 305	8 1596 41 306	9 1753 46 307	10 1932 51 308	11 2137 57 310	12 2374 64 312	13 2452 66 312	14 2648 72 314	
240	6 1277 30 299	7 1396 34 299	8 1528 38 300	8 1677 42 301	9 1845 47 302	10 2036 53 304	12 2256 59 306	12 2328 61 306	13 2508 66 308	
220	5 1178 26 288	6 1283 29 288	7 1401 33 289	8 1533 36 290	8 1682 40 291	9 1851 45 293	10 2042 50 295	11 2103 52 295	11 2256 56 296	
200	5 1084 22 277	5 1176 25 278	6 1280 28 278	7 1398 31 279	7 1530 35 280	8 1680 38 282	9 1846 43 283	9 1899 44 284	10 2030 47 284	
180	4 994 19 267	5 1074 21 267	5 1166 24 267	6 1270 27 268	7 1387 30 269	7 1519 33 271	8 1666 36 283	8 1711 37 272	9 1823 40 273	
160	4 907 16 256	4 976 18 256	5 1056 20 256	5 1147 23 257	6 1251 25 258	6 1368 28 260	7 1496 31 261	7 1536 32 261	8 1632 34 261	
140	3 823 14 244	4 881 15 244	4 949 17 244	5 1028 19 245	5 1119 21 246	6 1221 23 248	6 1334 26 249	6 1368 26 249	7 1451 28 250	
120	3 740 11 231	3 788 13 231	4 845 14 232	4 913 16 232	5 990 19 235	6 1080 21 235	5 1177 21 237	6 1207 22 237	6 1278 23 237	
100	2 626 9 212	3 660 10 211	3 702 11 212	3 753 12 212	4 815 13 214	4 886 14 216	4 964 16 217	5 987 16 217	5 1043 17 217	
50	2 431 4 176	2 440 5 174	2 457 5 173	2 480 6 174	2 512 7 175	2 552 7 177	3 595 8 179	3 608 8 179	3 673 9 179	
15	1 291 2 118	1 283 2 113	1 280 2 110	1 285 2 110	1 295 2 110	1 313 3 112	1 332 3 113	2 337 3 113	2 384 3 112	
FROM BRAKES RELEASE TIME (MIN)				FUEL (KG)						
FROM BRAKES RELEASE DIST. (NM)				MEAN SPEED TAS.(KT)						

 A300-600ST FLIGHT CREW OPERATING MANUAL	DECENT APPROACH			
	DECENT CHART 2 ENGINES			
	PAGE 4			

DECENT M .69/290/250KT									
IDLE THRUST ECONOMIC AIR CONDITIONING ANTI ICING OFF			ISA						
WEIGHT (1000Kg)	100				140				IAS (KT)
	TIME (MIN)	FUEL (KG)	DIST. (NM)	N1	TIME (MIN)	FUEL (KG)	DIST. (NM)	N1	
FL									
350	12.7	210	73	IDLE	15.1	249	86	IDLE	231
330	12.1	201	68	IDLE	14.4	240	82	IDLE	242
310	11.4	193	64	IDLE	13.8	249	77	IDLE	253
290	10.9	185	60	IDLE	13.1	249	73	IDLE	256
270	10.3	178	56	IDLE	12.5	249	69	IDLE	276
250	9.8	171	53	IDLE	11.9	249	65	IDLE	288
240	9.5	167	51	IDLE	11.5	249	62	IDLE	290
220	8.9	157	47	IDLE	10.8	249	57	IDLE	290
200	8.9	147	42	IDLE	9.9	249	52	IDLE	290
180	7.6	136	38	IDLE	9.1	249	46	IDLE	290
160	6.9	126	34	IDLE	8.3	249	41	IDLE	290
140	6.2	114	30	IDLE	7.4	249	36	IDLE	290
120	5.5	102	26	IDLE	6.5	249	31	IDLE	290
100	4.8	89	22	IDLE	5.6	249	26	IDLE	290
50	1.8	35	8	IDLE	2.1	249	9	IDLE	250
15	.0	0	0	IDLE	.0	249	0	IDLE	250