

HAMBURG
RWY 23

STANDARD INSTRUMENT DEPARTURE (SID)
RNAV (GPS, DME/DME/, DME/DME/IRU)

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
AMLUH 1B	AMLUH ONE BRAVO Climb on course 228° to 500 ft. Direct DH111, LT direct DH108, to DH115, to AMLUH. MAX IAS 210 KT until passing DH108.			5000 ft		Bremen Radar 119.510 Remain on TWR frequency until passing 2000, then contact Bremen Radar.		Additional conventional first segment description: Climb straight ahead to 5.5 DME ALF. LT direct DH108.		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direction	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV-Specification	Remarks
CA	-	-	-	(230.3) 228	-	-	A500+	-	RNAV-1	-
DF	DH111	N 53 34 31.74 E 009 52 32.92	Y	-	-	-	-	-	RNAV-1	-
DF	DH108	N 53 30 53.30 E 009 54 40.42	-	-	-	L	-	210-	RNAV-1	-
TF	DH115	N 53 30 48.07 E 010 02 41.42	-	(091.0) 088	4.8	-	-	-	RNAV-1	-
TF	AMLUH	N 53 25 44.35 E 010 19 21.03	-	(116.9) 114	11.2	-	-	-	RNAV-1	-

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
BASUM 4B	BASUM FOUR BRAVO Climb on course 228° to 500 ft. Direct DH105, to DH167, to DH117, to BASUM.			5000 ft		Bremen Radar 134.255 Remain on TWR frequency until passing 2000, then contact Bremen Radar.		Additional conventional first segment description: Climb straight ahead 2000 ft. Direct DH105.		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direc- tion	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV- Specification	Remarks
CA	-	-	-	(230.3) 228	-	-	A500+	-	RNAV-1	-
DF	DH105	N 53 29 16.85 E 009 41 46.94	-	-	-	-	-	-	RNAV-1	-
TF	DH167	N 53 22 56.55 E 009 25 39.87	-	(236.7) 234	11.6	-	-	-	RNAV-1	-
TF	DH117	N 53 19 25.31 E 009 16 47.05	-	(236.5) 234	6.4	-	-	-	RNAV-1	-
TF	BASUM	N 52 46 19.16 E 008 47 18.74	-	(208.4) 206	37.6	-	-	-	RNAV-1	-

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
EKERN 9B	EKERN NINE BRAVO Climb on course 228° to 500 ft. Direct DH111. RT direct DH102, to DH112, to DH103, to DH160, to EKERN. MAX IAS 210 KT until passing DH102.			5000 ft		Bremen Radar 119.510 Remain on TWR frequency until passing 2000, then contact Bremen Radar.		Additional conventional first segment description: Climb straight ahead to 5.5 DME ALF. RT direct DH102.		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direction	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV-Specification	Remarks
CA	-	-	-	(230.3) 228	-	-	A500+	-	RNAV-1	-
DF	DH111	N 53 34 31.74 E 009 52 32.92	Y	-	-	-	-	-	RNAV-1	-
DF	DH102	N 53 37 26.35 E 009 47 43.28	-	-	-	R	-	210-	RNAV-1	-
TF	DH112	N 53 42 51.00 E 009 55 27.48	-	(040.3) 038	7.1	-	-	-	RNAV-1	-
TF	DH103	N 53 53 38.43 E 010 07 15.56	-	(032.8) 030	12.9	-	-	-	RNAV-1	-
TF	DH160	N 54 02 39.82 E 010 03 26.83	-	(346.0) 343	9.3	-	-	-	RNAV-1	-
TF	EKERN	N 54 30 20.88 E 009 51 49.92	-	(346.3) 344	28.6	-	-	-	RNAV-1	-

Designator	Route			After Take-Off				Procedure Remarks/ Procedure Timesheet		
				Climb to		Contact				
ELSOB 1B	ELSOB ONE BRAVO Climb on course 228° to 500 ft. Direct DH111, RT on course 298° to ELSOB. Pass ELSOB at or above 4000 ft. MAX IAS 210 KT until passing DH111.			5000 ft		Bremen Radar 134.255 Remain on TWR frequency until passing 2000, then contact Bremen Radar.		PDG 4.1 % (250 ft/NM) until passing 4000 due minimum enroute altitude. Additional conventional first segment description: Climb straight ahead to 5.5 DME ALF. RT direct ELSOB.		
Recommended Path Terminator	Waypoint Identifier	Coordinates	Fly Over	(True Track°) Mag Track°	Distance (NM)	Turn Direction	Altitude (ft) / Flight Level	Speed Limit (kt IAS)	NAV-Specification	Remarks
CA	-	-	-	(230.3) 228	-	-	A500+	-	RNAV-1	-
DF	DH111	N 53 34 31.74 E 009 52 32.92	Y	-	-	-	-	210-	RNAV-1	-
CF	ELSOB	N 53 39 09.33 E 009 34 46.13	-	(300.4) 298	-	R	A4000+	-	RNAV-1	-