

KOELN/BONN
RNAV (GPS, DME/DME/IRU) RWY 13R

STANDARD INSTRUMENT DEPARTURE
ROUTES (SID)

Designator			Route		After Take-Off				Procedure remarks		
					Climb to		Contact				
NVO 3V			NVO THREE VICTOR		5000 ft		LANGEN RADAR 135.350 Remain on TWR frequency until passing 2000, then contact Langen Radar.		1. Pass DK142 at or above 1500 to remain in protected airspace. 2. Pass DK145 at or above 4000 due to crossing final approach RWY 24. If unable to comply advise ATC upon start-up. 3. By ATC only. 4. PDG 3.8% (235 ft/NM) due to obstacle.		
Climb on course 134° to 700. Direct DK142. On course 095° to DK143. LT direct DK144. To DK145. To DK149. To NVO. Climb with 3.8% (235 ft/NM) or more until passing 800. Pass DK142 at or above 1500. Pass DK145 at or above 4000. MAX IAS 220 kts until passing DK145. MAX IAS 250 kts until passing DK149.											
Route Type	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	Remark
Common	CA	-	-	-	(T137.5) 134	-	-	A700+	220-	RNAV 1	-
Common	DF	DK142	N 50 49 00.44 E 007 13 01.17	N	-	-	-	A1500+	220-	RNAV 1	-
Common	CF	DK143	N 50 48 35.78 E 007 17 41.52	Y	(T097.9) 095	-	-	-	220-	RNAV 1	-
Common	DF	DK144	N 50 49 22.39 E 007 21 00.27	N	-	-	L	-	220-	RNAV 1	-
Common	TF	DK145	N 50 51 33.36 E 007 21 46.88	N	(T012.7) 010	2.2	-	A4000+	220-	RNAV 1	-
Common	TF	DK149	N 50 55 07.80 E 007 20 13.01	N	(T344.5) 341	3.7	-	-	250-	RNAV 1	-
Common	TF	NVO	N 50 49 21.63 E 006 38 11.52	N	(T258.0) 255	27.2	-	-	-	RNAV 1	-

Designator			Route		After Take-Off				Procedure remarks		
					Climb to		Contact				
PODIP 7E			PODIP SEVEN ECHO		5000 ft		LANGEN RADAR 135.350 Remain on TWR frequency until passing 2000, then contact Langen Radar.		1. Pass DK142 at or above 1500 to remain in protected airspace. 2. PDG 3.8% (235 ft/NM) due to obstacle.		
Climb on course 134° to 700. Direct DK142. To COL. To PODIP. Climb with 3.8% (235 ft/NM) or more until passing 800. Pass DK142 at or above 1500. MAX IAS 220 kts until passing DK142.											
Route Type	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	Remark
Common	CA	-	-	-	(T137.5) 134	-	-	A700+	220-	RNAV 1	-
Common	DF	DK142	N 50 49 00.44 E 007 13 01.17	N	-	-	-	A1500+	220-	RNAV 1	-
Common	TF	COL	N 50 47 00.88 E 007 35 38.29	N	(T097.8) 095	14.5	-	-	-	RNAV 1	-
Common	TF	PODIP	N 50 56 33.80 E 007 49 10.05	N	(T041.8) 039	12.8	-	-	-	RNAV 1	-

Designator			Route		After Take-Off				Procedure remarks		
					Climb to		Contact				
WYP 5E			WYP FIVE ECHO		5000 ft		LANGEN RADAR 135.350 Remain on TWR frequency until passing 2000, then contact Langen Radar.		1. Pass DK142 at or above 1500 to remain in protected airspace. 2. Pass DK145 at or above 4000 due to crossing final approach RWY 24. If unable to comply advise ATC upon start-up. 3. PDG 3.8% (235 ft/NM) due to obstacle.		
Climb on course 134° 700. Direct DK142. On course 095° to DK143. LT direct DK144. To DK145. To WYP. Climb with 3.8% (235 ft/NM) or more until passing 800. Pass DK142 at or above 1500. Pass DK145 at or above 4000. MAX IAS 220 kts until passing DK145.											
Route Type	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	Remark
Common	CA	-	-	-	(T137.5) 134	-	-	A700+	220-	RNAV 1	-
Common	DF	DK142	N 50 49 00.44 E 007 13 01.17	N	-	-	-	A1500+	220-	RNAV 1	-
Common	CF	DK143	N 50 48 35.78 E 007 17 41.52	Y	(T097.9) 095	-	-	-	220-	RNAV 1	-
Common	DF	DK144	N 50 49 22.39 E 007 21 00.27	N	-	-	L	-	220-	RNAV 1	-
Common	TF	DK145	N 50 51 33.36 E 007 21 46.88	N	(T012.7) 010	2.2	-	A4000+	220-	RNAV 1	-
Common	TF	WYP	N 51 02 54.07 E 007 16 47.99	N	(T344.5) 341	11.8	-	-	-	RNAV 1	-