

STANDARD DEPARTURE  
ROUTES – INSTRUMENT  
(SID)

NIEDERRHEIN  
RWY 09

Pilots of GPS/FMS-RNAV-equipped aircraft shall, if possible, use the supplementary GPS/FMS RNAV procedures which are described following the text "GPS / FMS RNAV:" and charted in addition on "CHART - INSTRUMENT (OVERLAY)". When using these supplementary GPS/FMS RNAV procedures, the pilot shall check and ensure that the underlying conventional flight procedures are adhered to by monitoring the information of the ground-based navigation aids. The ground-based navigation aids required for the use of the respective conventional flight procedure and the associated aircraft equipment shall remain in operation at all times.

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
<b>VEBAK 2R</b>	<b>VEBAK TWO ROMEO</b> Climb on track 091° via LAA to 8.7 DME NID; RT, on R200 RKN to VEBAK (△). <b>GPS/FMS RNAV:</b> [A500+] - LAA - LV100[R] - LV102 - VEBAK.	5000 ft	Langen Radar 119.110	
<b>ERKUM 1R</b>	<b>ERKUM ONE ROMEO</b> Climb on rwy track to 1.7 DME NID; LT, on R254 HMM to 7.6 DME NID; RT, on track 092° to ERKUM (△). Climb with 7% (425ft/NM) or more until passing 3000. <b>GPS/FMS RNAV:</b> [A500+] - LV101[L] - LV105[R] - ERKUM.			1. PDG due to Navaid coverage. 2. After 7.6 DME NID BRNAV equipment necessary.
<b>SONEB 2R</b>	<b>SONEB TWO ROMEO</b> Climb on rwy track to 1.7 DME NID; LT, on R254 HMM to 13.8 DME NID; LT, on R196 RKN to 14.9 DME RKN; RT, on track 032° to SONEB (△). Climb with 7% (425ft/NM) or more until passing 3000. <b>GPS/FMS RNAV:</b> [A500+] - LAA - LV101[L] - LV103[L] - LV104[R] - SONEB.			1. PDG due to Navaid coverage. 2. After 14.9 DME RKN BRNAV equipment necessary. 3. Only for flights with RFL140 or above. Other flights proceed via ERKUM. Expect clearance to cross 10 NM prior SONEB at FL140 or above. If unable advise clearance Delivery upon start-up request.

(Sample: LV100 fly-over way point)