

FRANKFURT MAIN  
RWY 07C / 07R  
SIDs with Route Designator **ECHO**

STANDARD DEPARTURE  
ROUTES – INSTRUMENT  
(SID)

1. **Between 0600 (0500) and 2100 (2000):**
  - 1.1 SIDs with designator **ECHO** may be used by all **MEDIUM** and **LIGHT** aircraft **able to comply** with the climb restrictions;
  - 1.2 SIDs with designator **DELTA** shall be used by:
    - all **HEAVY** and **SUPER** aircraft and
    - all aircraft **unable to comply** with the climb restrictions in SIDs with designator **ECHO**.
2. **Between 2100 (2000) and 0600 (0500) ALL AIRCRAFT** shall use SIDs with designator **DELTA**.
3. **NON-RNAV (enroute only)** equipped aircraft shall use SIDs with designator **CHARLIE**.

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
<b>RATIM 5E</b>	<b>RATIM FIVE ECHO</b> On RWY track to 800; via FR to 6.0 DME FRD (3.0 DME outbound FFM) (MAX IAS 220 KT until established on R192 MTR); RT, on R192 MTR to 10.8 DME FFM; LT, on track 105° to AMTIX (△); LT, on track 102° via AKONI (△) to RATIM (△). <b>GPS/FMS RNAV:</b> [A800+] - DF152[R] - DF150[K220-; L] - DF153[L] - AMTIX[L] - AKONI - RATIM.	4000 ft	Langen Radar 136.125*	1. Only for propeller-driven aircraft (MAX RFL 230) instead of SID NOMBO. 2. After 10.8 DME FFM BRNAV equipment necessary. 3. Not for flights terminating within EDDN Area or EDMM FIR.
<b>SOBRA 4E</b>	<b>SOBRA FOUR ECHO</b> On RWY track to 1.6 DME FRD (1.5 DME inbound FFM) or 800, whichever is later; RT (MAX IAS 220 KT until established on R199 FFM), on R199 FFM to 17.3 DME FFM; RT, on track 283° via ROSIG and DONAB to SOBRA (△). Cross 4.0 DME FFM at 2500 or above. Cross 10.3 DME FFM at 4000. Cross ROSIG at FL 90 or above. Cross DONAB at FL 110 or above. <b>GPS/FMS RNAV:</b> [A800+] - DF144 (07C)[R] / DF145 (07R)[R] - DF154 [A2500+; K220-] - DF160[A4000] - DF198[R] - ROSIG[F090+] - DONAB[F110+] - SOBRA.			1. PDG 6.3% / 380 ft/NM until passing 2500. PDG 6.6% / 405 ft/NM after 10.3 DME FFM until passing FL 90 due to airspace structure. If unable to comply, advise EDDF DELIVERY prior to start-up. 2. For flights intending to proceed at FL 250 or above via Y180/Y181. Flights have to be able to cross RUDOT at FL 240 or above. If unable to comply, flight plan shall read RUDOT FL 220 - Y180 - DIK RFL. 3. After 17.3 DME FFM BRNAV equipment necessary.
<b>SULUS 6E</b>	<b>SULUS SIX ECHO</b> On RWY track to 800; via FR to 6.0 DME FRD (3.0 DME outbound FFM); RT, on track 099°; LT, intercept R087 FFM to 24.0 DME FFM; LT, on track 060° to AGOLO; RT, on track 089° to OKTUM; RT, on track 129° to KOMIB; LT, on track 088° to SULUS (△). <b>GPS/FMS RNAV:</b> [A800+] - DF149[R] - DF151[L] - DF169[L] - AGOLO[R] - OKTUM[R] - KOMIB[L] - SULUS		Langen Radar 120.150*	1. After 24.0 DME FFM BRNAV equipment necessary. 2. Not for flights destination EDDN.
<b>TOBAK 7E</b>	<b>TOBAK SEVEN ECHO</b> On RWY track to 800; then direct to FR; at FR (5.0 DME FRD / 2.0 DME outbound FFM) immediate LT, on R202 MTR to MTR (△); LT, on track 351° to TOBAK (△). <b>GPS/FMS RNAV:</b> [A800+] - DF149[L] - MTR[L] - TOBAK.	5000 ft		1. After MTR BRNAV equipment necessary. 2. Not for flights continuing via Z10.

(Sample: DF152 fly-over way point)

\* Departure frequency may deviate from the frequency published.  
Check ATIS for current departure frequency.

Contact LANGEN RADAR when advised by Tower!