

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

MANNHEIM CITY
RWY 09

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MANEM 7C	MANEM SEVEN CHARLIE On track 092° to 3.0 DME MND; RT, on bearing 148° NKR to 5.5 DME MND; RT, on track 210°; RT, on track 262° from NKR / R082 ZWN to MANEM (Δ). Climb with 4.0% (243 ft/NM) or more until passing 600. GPS/FMS RNAV: [A800+] - FM040[R] - FM041[R] - FM043[R] - MANEM.	5000 ft	Langen Radar 129.350	1. PDG 4.0% (243 ft/NM) due to obstacles. 2. During activity of ED-R 205 (TRA) MAX FL80.
OLIVI 5C	OLIVI FIVE CHARLIE On track 092° to 3.0 DME MND; RT, on bearing 148° NKR to 5.5 DME MND; RT, on track 210°; RT, on track 297° from NKR to 7.8 DME MND; RT, on track 334° to KOSAX (Δ); LT, on track 295° to OLIVI (Δ). Climb with 4.0% (243 ft/NM) or more until passing 600. GPS/FMS RNAV: [A800+] - FM040[R] - FM041[R] - FM042[R] - FM045[R] - KOSAX[A6000+; L] - OLIVI.			1. PDG 4.0% (243 ft/NM) due to obstacles. 2. After 7.8 DME MND BRNAV equipment necessary 3. During activity of ED-R 205 (TRA) MAX FL80.
RINEX 2C	RINEX TWO CHARLIE On track 092° to 3.0 DME MND; RT, on bearing 148° inbound NKR to 25.5 DME RID; RT, on track 262° from NKR to RINEX (Δ). Climb with 4.0% (243 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM040[R] - FM044[R] - FM046 - RINEX[A5000+].			1. PDG 4.0% (243 ft/NM) due to obstacles. 2. PDG 5.3% (320 ft/NM) due to airspace structure.
ROLSO 2C	ROLSO TWO CHARLIE On track 092° to 3.0 DME MND; RT, on bearing 148° inbound NKR to 25.5 DME RID; LT, on track 086° from NKR to ROLSO (Δ). Climb with 4.0% (243 ft/NM) or more until passing 600. GPS/FMS RNAV: [A800+] - FM040[R] - NKR[L] - ROLSO.			1. PDG 4.0% (243 ft/NM) due to obstacles. 2. Flights with destination EDDF or EDFE shall file ROLSO DCT SUPIX - T163 - PSA.
UMDAS 2C	UMDAS TWO CHARLIE On track 092° to 3.0 DME MND; RT, on bearing 148° inbound NKR to 25.0 DME RID; LT, on track 060° to UMDAS (Δ). Climb with 4.0% (243 ft/NM) or more until passing 600, then climb with 5.3% (320 ft/NM) or more until passing 3500. GPS/FMS RNAV: [A800+] - FM040[R] - FM047[L] - UMDAS.			1. PDG 4.0% (243 ft/NM) due to obstacles, PDG 5.3% (320 ft/NM) due to airspace structure. If unable to comply, request alternative instruction by ATC. 2. After 25.0 DME RID BRNAV equipment necessary.

(Sample: FM044 fly-over waypoint)

Contact Langen Radar immediately after take-off!