

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.  
 Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GOETZ</b>	<b>TWO</b>	<b>GOETZ2.GOETZ</b>	<b>ONE</b>	<b>05 APR 12</b>	<b>07 MAR 2013</b>

**TYPE:** RNAV SID

**DP ROUTE DESCRIPTION:**

**TAKEOFF RWY 9:** CLIMB HEADING 090.95, EXPECT VECTORS TO GOETZ, THENCE...  
**TAKEOFF RWY 18L:** CLIMB HEADING 178.00 TO INTERCEPT COURSE 159.98 TO RIBZZ, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...  
**TAKEOFF RWY 18C:** CLIMB HEADING 178.01 TO INTERCEPT COURSE 156.91 TO RIBZZ, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...  
**TAKEOFF RWY 18R:** CLIMB HEADING 177.99 TO INTERCEPT COURSE 145.95 TO RIBZZ, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...  
**TAKEOFF RWY 27:** CLIMB HEADING 270.97, EXPECT VECTORS TO GOETZ, THENCE...  
**TAKEOFF RWY 36L:** CLIMB HEADING 357.99 TO INTERCEPT COURSE 032.98 TO JAAXX, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...  
**TAKEOFF RWY 36C:** CLIMB HEADING 358.01 TO INTERCEPT COURSE 029.99 TO JAAXX, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...  
**TAKEOFF RWY 36R:** CLIMB HEADING 358.00 TO INTERCEPT COURSE 029.98 TO JAAXX, THEN ON DEPICTED ROUTE TO GOETZ, THENCE...

... MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
TIBUY	GOETZ2.TIBUY	GOETZ	TIBUY	TRACK 071.48	69.00	18000	2200	

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** DME/DME/IRU OR GPS REQUIRED. **NOTE:** RNAV 1. **NOTE:** TURBOJETS ONLY.  
**NOTE:** TAKEOFF RWY 18L, 18C, 18R, 36L, 36C, 36R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.  
**NOTE:** TAKEOFF RWY 9, 27 – RADAR REQUIRED.  
**NOTE:** TRANSPONDER CODE WILL BE ISSUED VIA PDC OR MEMPHIS CLEARANCE DELIVERY.  
**NOTE:** ACCELERATE TO 250 KIAS, IF UNABLE ADVISE ATC.

**TAKEOFF MINIMUMS:**

RWY 9, 18L, 18C, 18R, 27, 36L, 36C, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 860.

**TAKEOFF OBSTACLES NOTES:**

**NOTE:** RWY 9, NUMEROUS TREES AND LIGHT POLE BEGINNING 1498 FT FROM DER, 800 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/409 FT MSL. NUMEROUS TREES BEGINNING 2193 FT FROM DER, 912 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/419 FT MSL.  
**NOTE:** RWY 18L, NUMEROUS TREES BEGINNING 1218 FT FROM DER, 693 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.  
**NOTE:** RWY 18C, NUMEROUS TREES BEGINNING 1430 FT FROM DER, 831 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.  
**NOTE:** RWY 18R, POLE, VORTAC, AND NUMEROUS TREES BEGINNING 1904 FT FROM DER, 986 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/449 FT MSL. NUMEROUS TREES BEGINNING 1272 FT FROM DER, 684 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.  
**NOTE:** RWY 27, NUMEROUS TREES BEGINNING 2218 FT FROM DER, 875 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/361 FT MSL. NUMEROUS TREES BEGINNING 785 FT FROM DER, 682 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/349 FT MSL.  
**NOTE:** RWY 36C, LIGHT POLE 1949 FT FROM DER, 928 FT RIGHT OF CENTERLINE, 77 FT AGL/336 FT MSL.

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**CONTROLLING OBSTACLES:**

**RWY 36L:** 624 FT MSL ATCT 350258.68N/0895853.69W. **RWY 36C:** 624 FT MSL ATCT 350258.68N/0895853.69W.

**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KMEM 1E EPOCH YEAR: 2000. DME/DME ASSESSMENT: SAT (RNP 2.0)

**PILOT NAVIGATION AREA:**

10 NM ARC CENTERED ON GOETZ (IF), CW  
FROM: POINT A (BEARING 026 TO GOETZ)  
TO: POINT B (BEARING 116 TO GOETZ)  
MINIMUM ALTITUDE - 10000

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**AIRPORTS SERVED:**

MEMPHIS INTL

MEMPHIS, TN

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**COMMUNICATIONS:**

ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, DEP CON

**FIXES AND/OR NAVAIDS:**

HENIR, WRTZ, AYERR, UNCLE, THMUS

## DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code		Superseded Number		Dated	Effective Date
GOETZ		TWO		GOETZ2.GOETZ		ONE		05 APR 12	07 MAR 2013
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW09 (AER)	350331.04N/0895908.63W	N	-	-	-	-			
		-	-	VM	091.95	-			CG 500 FT/NM TO 860
GOETZ	351402.70N/0890904.18W	Y	FB	DF	-	-			
RW18L (AER)	350255.74N/0895822.63W	N	-	-	-	-			
	345919.35N/0895818.05W	-	-	VI	179.00	3.60			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	160.98	3.68			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	061.52	33.58			
RW18C (AER)	350316.54N/0895834.21W	N	-	-	-	-			
	345910.18N/0895829.04W	-	-	VI	179.01	4.10			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	157.91	3.59			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	061.52	33.58			
RW18R (AER)	350258.16N/0895914.79W	N	-	-	-	-			
	345846.15N/0895909.39W	-	-	VI	178.99	4.19			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	146.95	3.49			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	061.52	33.58			
RW27 (AER)	350328.01N/0895721.08W	N	-	-	-	-			
		-	-	VM	271.97	-			CG 500 FT/NM TO 860
GOETZ	351402.70N/0890904.18W	Y	FB	DF	-	-			

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DP Name		Number		DP Computer Code		Superseded Number		Dated	Effective Date
GOETZ		TWO		GOETZ2.GOETZ		ONE		05 APR 12	07 MAR 2013
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW36L (AER)	350125.98N/0895912.81W	N	-	-	-	-			
	350409.66N/0895916.32W	-	-	VI	358.99	2.72			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	033.98	5.28			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
UNCLE	350951.43N/0894128.51W	Y	FB	TF	078.38	7.18			
THMUS	351151.05N/0892931.20W	Y	FB	TF	078.46	10.00			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	082.45	16.90			
RW36C (AER)	350126.58N/0895831.90W	N	-	-	-	-			
	350432.85N/0895835.81W	-	-	VI	359.01	3.10			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.99	4.66			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
UNCLE	350951.43N/0894128.51W	Y	FB	TF	078.38	7.18			
THMUS	351151.05N/0892931.20W	Y	FB	TF	078.46	10.00			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	082.45	16.90			
RW36R (AER)	350126.74N/0895820.75W	N	-	-	-	-			
	350447.50N/0895825.00W	-	-	VI	359.00	3.34			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.98	4.38			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
UNCLE	350951.43N/0894128.51W	Y	FB	TF	078.38	7.18			
THMUS	351151.05N/0892931.20W	Y	FB	TF	078.46	10.00			
GOETZ	351402.70N/0890904.18W	Y	FB	TF	082.45	16.90			
GOETZ	351402.70N/0890904.18W	Y	-	IF	-	-			GOETZ2.TIBUY
TIBUY	353424.18N/0874824.47W	Y	FB	TF	072.48	69.00			



### DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GOETZ (RNAV)	TWO	GOETZ2.GOETZ	ONE	05 APR 12	07 MAR 2013

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMEMK7DGOETZ24RW09	010	0	VM		0910			18000				
SUSAP	KMEMK7DGOETZ24RW09	020GOETZK7EA0EE	010DF										
SUSAP	KMEMK7DGOETZ24RW18C	010	0	VI					18000				
SUSAP	KMEMK7DGOETZ24RW18C	020RIBZZK7EA0E	010CF	MEM K7	15970054	15690036D							
SUSAP	KMEMK7DGOETZ24RW18C	030HENIRK7EA0E	010TF			09220053							
SUSAP	KMEMK7DGOETZ24RW18C	040WRR TZK7EA0E	010TF			05870051							
SUSAP	KMEMK7DGOETZ24RW18C	050GOETZK7EA0EE	010TF			06050336							
SUSAP	KMEMK7DGOETZ24RW18L	010	0	VI		1780			18000				
SUSAP	KMEMK7DGOETZ24RW18L	020RIBZZK7EA0E	010CF	MEM K7	15970054	16000037D							
SUSAP	KMEMK7DGOETZ24RW18L	030HENIRK7EA0E	010TF			09220053							
SUSAP	KMEMK7DGOETZ24RW18L	040WRR TZK7EA0E	010TF			05870051							
SUSAP	KMEMK7DGOETZ24RW18L	050GOETZK7EA0EE	010TF			06050336							
SUSAP	KMEMK7DGOETZ24RW18R	010	0	VI		1780			18000				
SUSAP	KMEMK7DGOETZ24RW18R	020RIBZZK7EA0E	010CF	MEM K7	15970054	14600035D							
SUSAP	KMEMK7DGOETZ24RW18R	030HENIRK7EA0E	010TF			09220053							
SUSAP	KMEMK7DGOETZ24RW18R	040WRR TZK7EA0E	010TF			05870051							
SUSAP	KMEMK7DGOETZ24RW18R	050GOETZK7EA0EE	010TF			06050336							
SUSAP	KMEMK7DGOETZ24RW27	010	0	VM		2710			18000				

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SUSAP	KMEMK7DGOETZ24RW27	020GOETZK7EA0EE	010DF			
SUSAP	KMEMK7DGOETZ24RW36C	010	0	VI	3580	18000
SUSAP	KMEMK7DGOETZ24RW36C	020JAAXXK7EA0E	010CF	MEM K7	0186008103000047D	
SUSAP	KMEMK7DGOETZ24RW36C	030AYERRK7EA0E	010TF		09060046	
SUSAP	KMEMK7DGOETZ24RW36C	040UNCLEK7EA0E	010TF		07740072	
SUSAP	KMEMK7DGOETZ24RW36C	050THMUSK7EA0E	010TF		07750100	
SUSAP	KMEMK7DGOETZ24RW36C	060GOETZK7EA0EE	010TF		08150169	
SUSAP	KMEMK7DGOETZ24RW36L	010	0	VI	3580	18000
SUSAP	KMEMK7DGOETZ24RW36L	020JAAXXK7EA0E	010CF	MEM K7	0186008103300053D	
SUSAP	KMEMK7DGOETZ24RW36L	030AYERRK7EA0E	010TF		09060046	
SUSAP	KMEMK7DGOETZ24RW36L	040UNCLEK7EA0E	010TF		07740072	
SUSAP	KMEMK7DGOETZ24RW36L	050THMUSK7EA0E	010TF		07750100	
SUSAP	KMEMK7DGOETZ24RW36L	060GOETZK7EA0EE	010TF		08150169	
SUSAP	KMEMK7DGOETZ24RW36R	010	0	VI	3580	18000
SUSAP	KMEMK7DGOETZ24RW36R	020JAAXXK7EA0E	010CF	MEM K7	0186008103000044D	
SUSAP	KMEMK7DGOETZ24RW36R	030AYERRK7EA0E	010TF		09060046	
SUSAP	KMEMK7DGOETZ24RW36R	040UNCLEK7EA0E	010TF		07740072	
SUSAP	KMEMK7DGOETZ24RW36R	050THMUSK7EA0E	010TF		07750100	
SUSAP	KMEMK7DGOETZ24RW36R	060GOETZK7EA0EE	010TF		08150169	
SUSAP	KMEMK7DGOETZ26TIBUY	010GOETZK7EA0E	IF			18000
SUSAP	KMEMK7DGOETZ26TIBUY	020TIBUYK7EA0EE	010TF		07150690	

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GOETZ (RNAV)	TWO	GOETZ2.GOETZ	ONE	05 APR 12	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW09		010		VM		FB		091.0()			
	RW09	GOETZ	020		DF		FB	1.0				
	RW18C		010		VI		FB		178.0()			
	RW18C	RIBZZ	020		CF		FB	1.0	156.9()	003.6		
	RW18C	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18C	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18C	GOETZ	050		TF		FB	1.0	060.5()	033.6		
	RW18L		010		VI		FB		178.0()			
	RW18L	RIBZZ	020		CF		FB	1.0	160.0()	003.7		
	RW18L	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18L	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18L	GOETZ	050		TF		FB	1.0	060.5()	033.6		
	RW18R		010		VI		FB		178.0()			
	RW18R	RIBZZ	020		CF		FB	1.0	146.0()	003.5		
	RW18R	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18R	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18R	GOETZ	050		TF		FB	1.0	060.5()	033.6		
	RW27		010		VM		FB		271.0()			
	RW27	GOETZ	020		DF		FB	1.0				
	RW36C		010		VI		FB		358.0()			
	RW36C	JAAXX	020		CF		FB	1.0	030.0()	004.7		
	RW36C	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36C	UNCLE	040		TF		FB	1.0	077.4()	007.2		
	RW36C	THMUS	050		TF		FB	1.0	077.5()	010.0		
	RW36C	GOETZ	060		TF		FB	1.0	081.5()	016.9		
	RW36L		010		VI		FB		358.0()			
	RW36L	JAAXX	020		CF		FB	1.0	033.0()	005.3		
	RW36L	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36L	UNCLE	040		TF		FB	1.0	077.4()	007.2		
	RW36L	THMUS	050		TF		FB	1.0	077.5()	010.0		
	RW36L	GOETZ	060		TF		FB	1.0	081.5()	016.9		
	RW36R		010		VI		FB		358.0()			
	RW36R	JAAXX	020		CF		FB	1.0	030.0()	004.4		
	RW36R	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36R	UNCLE	040		TF		FB	1.0	077.4()	007.2		
	RW36R	THMUS	050		TF		FB	1.0	077.5()	010.0		
	RW36R	GOETZ	060		TF		FB	1.0	081.5()	016.9		
	TIBUY	GOETZ	010		IF		FB					
	TIBUY	TIBUY	020		TF		FB	1.0	071.5()	069.0		

POINT DATA

WAYPOINT

LAT IN SECS

LONG IN SECS

LAT IN MINS

LONG IN MINS

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MEM	N350054.42	W0895859.55	N3500.907	W08958.993	
AYERR	N350824.81	W0895003.18	N3508.414	W08950.053	
GOETZ	N351402.70	W0890904.18	N3514.045	W08909.070	
HENIR	N345532.36	W0895025.95	N3455.539	W08950.433	
JAAXX	N350832.89	W0895540.25	N3508.548	W08955.671	
RIBZZ	N345550.46	W0895650.61	N3455.841	W08956.844	
THMUS	N351151.05	W0892931.20	N3511.851	W08929.520	
TIBUY	N353424.18	W0874824.47	N3534.403	W08748.408	
UNCLE	N350951.43	W0894128.51	N3509.857	W08941.475	
WRRTZ	N345805.90	W0894505.99	N3458.098	W08945.100	
RW09	N350331.04	W0895908.63	N3503.517	W08959.144	
RW18C	N350316.54	W0895834.21	N3503.276	W08958.570	
RW18L	N350255.74	W0895822.63	N3502.929	W08958.377	
RW18R	N350258.16	W0895914.79	N3502.969	W08959.247	
RW27	N350328.01	W0895721.08	N3503.467	W08957.351	
RW36C	N350126.58	W0895831.90	N3501.443	W08958.532	
RW36L	N350125.98	W0895912.81	N3501.433	W08959.214	
RW36R	N350126.74	W0895820.75	N3501.446	W08958.346	

## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW09	00253	52
RW18C	00271	54
RW18L	00278	60
RW18R	00288	52
RW27	00292	54
RW36C	00341	60
RW36L	00321	59
RW36R	00335	58