

**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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HANSCOM	NINE	HNSCM9.BED	EIGHT	27 JUN 2013	30 APR 2015

**TYPE:** SID

**DP ROUTE DESCRIPTION:**

**TAKEOFF ALL RUNWAYS:** CLIMB HEADING AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO ASSIGNED ROUTE/NAVAID/FIX. MAINTAIN 2000. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITH 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

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** RADAR REQUIRED.

**NOTE:** NON RNAV EQUIPPED AIRCRAFT CAN EXPECT VECTORS ON ASSIGNED ROUTE.

**NOTE:** BLZZR DEPARTURES EXPECT VECTORS ON BOS R-273, DME REQUIRED.

**NOTE:** BRUWN DEPARTURES EXPECT VECTORS ON BOS R-159, DME REQUIRED.

**NOTE:** CELTK DEPARTURES EXPECT VECTORS ON BOS R-114.

**NOTE:** HYLND DEPARTURES EXPECT VECTORS ON BOS R-350.

**NOTE:** PATSS DEPARTURES EXPECT VECTORS ON BOS R-260, DME REQUIRED.

**NOTE:** REVSS DEPARTURES EXPECT VECTORS ON BOS R-285, DME REQUIRED.

**NOTE:** SSOXS DEPARTURES EXPECT VECTORS ON BOS R-177.

**TAKEOFF MINIMUMS:**

**RWY 5, 29,** STANDARD.

**RWY 11,** 300-1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 251 FT PER NM TO 400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NOT LATER THAN 2100 FT PRIOR TO DER.

**RWY 23,** 300-2 OR STANDARD WITH A MINIMUM CLIMB OF 426 FT PER NM TO 500.



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**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 5,** TREES, FENCE, BUSH, AND VEGETATION BEGINNING 44 FT FROM DER, 84 FT LEFT AND 113 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/171 FT MSL. TREES AND POLES BEGINNING 1153 FT FROM DER, 11 FT LEFT AND 117 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/221 FT MSL. TREES BEGINNING 2528 FT FROM DER, 9 FT LEFT AND 2 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/235 FT MSL.

**NOTE: RWY 11,** SIGN 81 FT FROM DER, 237 FT RIGHT OF CENTERLINE, 14 FT AGL/126 FT MSL. TREES BEGINNING 1431 FT FROM DER, 684 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/181 FT MSL. TREES BEGINNING 1875 FT FROM DER, 99 FT LEFT AND 457 FT RIGHT OF CENTERLINE, UP TO 73 FT AGL/231 FT MSL. TOWER 5028 FT FROM DER, 1681 FT LEFT OF CENTERLINE, 155 FT AGL/285 FT MSL.

**NOTE: RWY 23,** SIGN 2 FT FROM DER, 303 FT RIGHT OF CENTERLINE, 6 FT AGL/133 FT MSL. VEHICLE ON ROAD 534 FT FROM DER, FROM 293 FT RIGHT TO 3 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/167 FT MSL. BUILDING 614 FT FROM DER, 620 FT LEFT OF CENTERLINE, 23 FT AGL/151 FT MSL. TREES AND POLE BEGINNING 855 FT FROM DER, 379 FT LEFT AND 337 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/180 FT MSL. TREES BEGINNING 1090 FT FROM DER, 558 FT LEFT AND 263 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/232 FT MSL. TREES AND BUILDING BEGINNING 1588 FT FROM DER, 88 FT LEFT AND 138 FT RIGHT OF CENTERLINE, UP TO 95 FT AGL/259 FT MSL. TREES BEGINNING 2149 FT FROM DER, 524 FT LEFT AND 213 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/286 FT MSL. TREES, BLDGS, AND TOWER BEGINNING 3721 FT FROM DER, 48 FT LEFT AND 4 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/379 FT MSL.

**NOTE: RWY 29,** SIGN 13 FT FROM DER, 273 FT RIGHT OF CENTERLINE, 24 FT AGL/135 FT MSL. TREE 391 FT FROM DER, 487 FT LEFT OF CENTERLINE, 20 FT AGL/153 FT MSL. POLES AND TREES BEGINNING 1109 FT FROM DER, 734 FT LEFT AND 49 FT RIGHT OF CENTERLINE, UP TO 106 FT AGL/243 FT MSL. TREES BEGINNING 3007 FT FROM DER, 6 FT LEFT AND 49 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/246 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 11:** 285 FT MSL TOWER 422820.28N/0711519.06W.

**RWY 23:** 283 FT MSL TREE 422719.05N/0711758.98W (CLIMB GRADIENT). 366 FT MSL TREE 422631.693/0711858.58W (VISIBILITY). 379 FT MSL TREE 422633.52N/0711848.89W (CEILING).

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

**CHART:** BOS R-273/35.3 DME AT BLZZR.

**CHART:** BOS R-159/56.6 DME AT BRUWN.

**CHART:** BOS R-114/39.8 DME AND LFV R-005/15.2 DME AT CELTK.

**CHART:** BOS R-350/28.4 DME AND PSM R-243/26.7 DME AT HYLND.

**CHART:** BOS R-260/36.0 DME AT PATSS.

**CHART:** BOS R-285/36.5 DME AT REVSS.

**CHART:** BOS R-177/33.1 DME AND PVD R-091/31.4 DME AT SSOXS.

**CHART:** BOS R-048/31.3 DME AT LBSTA.

**CHART:** BOS R-192/24.2 DME AND SEY R-046/55.0 DME AT BURDY.

**CHART:** TOP ALTITUDE: ASSIGNED BY ATC.

**REFERENCE MAGVAR:** KBED 16W EPOCH YR: 1995.



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**AIRPORTS SERVED:**

LAURENCE G HANSCOM FLD

**COMMUNICATIONS:**

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

**FIXES AND/OR NAVAIDS:**

ACK VOR/DME BAF VORTAC, BOS VOR/DME, CAM VOR/DME, CMK VOR/DME, CTR VOR/DME, ENE VORTAC, LFV VOR/DME, MHT VOR/DME, MVY VOR/DME, PSM VOR/DME, PVD VORTAC, SEY VOR/DME, SYR VORTAC, BLZZR, BOSOX, BRUWN, BURDY, BUZRD, CELTK, DUNKK, FREDO, FRILL, GLYDE, HANAA, HYLND, LBSTA, NELIE, PATSS, REVSS, SSOXS.



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**REMARKS:****COORDINATED WITH:**

ATA, ALPA, APA, AOPA, NBAA, ZBW, BOS APP CON, BED ATCT, ARPT MGR

**CHANGES:**

1. DELETED FIX LUCOS FROM FIXES AND/OR NAVAIDS BLOCK; DELETED "CHART: BOS R-183/44.3 DME AND SEY R-067/46.1 DME AT LUCOS" NOTE FROM ADDITIONAL FLIGHT DATA BLOCK.
2. DELETED FIX ONEPS FROM FIXES AND/OR NAVAIDS BLOCK; DELETED "CHART: BAF R-107/24.9 DME AT ONEPS" NOTE FROM ADDITIONAL FLIGHT DATA BLOCK.
3. DELETED FIX SPENO FROM FIXES AND/OR NAVAIDS BLOCK;
4. ADDED FIXES BUZRD AND HANAA, AND NAVAIDS CAM VOR/DME AND SYR VORTAC TO FIXES AND/OR NAVAIDS BLOCK.
5. ADDED "CHART: BOS R-048/31.3 DME AT LBSTA" NOTE TO ADDITIONAL FLIGHT DATA BLOCK.
6. ADDED "CHART: BOS R-192/24.2 DME AND SEY R-046/55.0 DME AT BURDY" NOTE TO ADDITIONAL FLIGHT DATA BLOCK.
7. ADDED "(CLIMB GRADIENT)", "(VISIBILITY)", AND 379 FT MSL TREE 422633.52N/0711848.89W (CEILING)" TO CONTROLLING OBSTACLES BLOCK.
8. ADDED REFERENCE MAGVAR TO ADDITIONAL FLIGHT DATA BLOCK.
9. ADDED CHART: TOP ALTITUDE: ASSIGNED BY ATC ENTRY.

**REASONS:**

- 1-6. PER ATC REQUEST OUTLINED IN APPROVED RAPT CONSENSUS FORM AND EXPANDED ON VIA EMAIL CORRESPONDENCE WITH STEPHEN HENRICH OF BOSTON CONSOLIDATED TRACON (A90)
7. IAW 8260.46E, APPENDIX D, PARA 7A, WHEN THERE IS MORE THAN ONE CONTROLLING OBSTACLE, INCLUDE WHAT ENTITY IT APPLIES TO.
8. IAW 8260.46E, APPENDIX D, PARA 9B, PLACE THE REFERENCE MAGNETIC VARIATION OF RECORD USED TO DEVELOP THE PROCEDURE.
9. PER CRITERIA PER MEMORANDUM 225, 12/17/2014.



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW05		010		VM		FB		053.1 ( )			
	RW11		010		VM		FB		113.1 ( )			
	RW23		010		VM		FB		233.1 ( )			
	RW29		010		VM		FB		293.1 ( )			
	ACK	KBED	010		IF		FB					
	ACK	ACK	020		DF		FB					
	BAF	KBED	010		IF		FB					
	BAF	BAF	020		DF		FB					
	BLZZR	KBED	010		IF		FB					
	BLZZR	BLZZR	020		DF		FB					
	BOS	KBED	010		IF		FB					
	BOS	BOS	020		DF		FB					
	BOSOX	KBED	010		IF		FB					
	BOSOX	BOSOX	020		DF		FB					
	BRUWN	KBED	010		IF		FB					
	BRUWN	BRUWN	020		DF		FB					
	BURDY	KBED	010		IF		FB					
	BURDY	BURDY	020		DF		FB					
	BUZRD	KBED	010		IF		FB					
	BUZRD	BUZRD	020		DF		FB					
	CAM	KBED	010		IF		FB					
	CAM	CAM	020		DF		FB					
	CELTK	KBED	010		IF		FB					
	CELTK	CELTK	020		DF		FB					
	CMK	KBED	010		IF		FB					
	CMK	CMK	020		DF		FB					
	CTR	KBED	010		IF		FB					
	CTR	CTR	020		DF		FB					
	DUNKK	KBED	010		IF		FB					
	DUNKK	DUNKK	020		DF		FB					
	ENE	KBED	010		IF		FB					
	ENE	ENE	020		DF		FB					
	FREDO	KBED	010		IF		FB					
	FREDO	FREDO	020		DF		FB					
	FRILL	KBED	010		IF		FB					
	FRILL	FRILL	020		DF		FB					
	GLYDE	KBED	010		IF		FB					
	GLYDE	GLYDE	020		DF		FB					
	HANAA	KBED	010		IF		FB					
	HANAA	HANAA	020		DF		FB					
	HYLND	KBED	010		IF		FB					
	HYLND	HYLND	020		DF		FB					

QUALITY  
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CHECKED

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LBSTA	KBED	010	IF	FB
LBSTA	LBSTA	020	DF	FB
LFV	KBED	010	IF	FB
LFV	LFV	020	DF	FB
MHT	KBED	010	IF	FB
MHT	MHT	020	DF	FB
MVY	KBED	010	IF	FB
MVY	MVY	020	DF	FB
NELIE	KBED	010	IF	FB
NELIE	NELIE	020	DF	FB
PATSS	KBED	010	IF	FB
PATSS	PATSS	020	DF	FB
PSM	KBED	010	IF	FB
PSM	PSM	020	DF	FB
PVD	KBED	010	IF	FB
PVD	PVD	020	DF	FB
REVSS	KBED	010	IF	FB
REVSS	REVSS	020	DF	FB
SEY	KBED	010	IF	FB
SEY	SEY	020	DF	FB
SSOXS	KBED	010	IF	FB
SSOXS	SSOXS	020	DF	FB
SYR	KBED	010	IF	FB
SYR	SYR	020	DF	FB

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ACK	N411654.79	W0700136.16	N4116.913	W07001.603
	BAF	N420943.05	W0724258.32	N4209.718	W07242.972
	BOS	N422126.82	W0705922.37	N4221.447	W07059.373
	CAM	N425939.44	W0732038.47	N4259.657	W07320.641
	CMK	N411648.32	W0733452.77	N4116.805	W07334.880
	CTR	N421728.75	W0725657.82	N4217.479	W07256.964
	ENE	N432532.42	W0703648.69	N4325.540	W07036.812
	LFV	N420101.88	W0700214.04	N4201.031	W07002.234
	MHT	N425206.71	W0712210.32	N4252.112	W07122.172
	MVY	N412346.35	W0703645.77	N4123.773	W07036.763
	PSM	N430504.06	W0704955.15	N4305.068	W07049.919
	PVD	N414327.64	W0712546.70	N4143.461	W07125.778
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	SYR	N430937.87	W0761216.41	N4309.631	W07612.274
	BLZZR	N421302.39	W0714536.59	N4213.040	W07145.610
	BOSOX	N421206.79	W0713739.64	N4212.113	W07137.661
	BRUWN	N413609.68	W0701345.81	N4136.161	W07013.764
	BURDY	N415719.14	W0705707.45	N4157.319	W07057.124
	BUZRD	N413245.88	W0705750.69	N4132.765	W07057.845
	CELTK	N421559.05	W0700612.33	N4215.984	W07006.206

QUALITY  
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HANSCOM	NINE	HNSCM9.BED	EIGHT	27 JUN 2013	30 APR 2015
DUNKK	N420454.15	W0703922.83	N4204.903	W07039.381	
FREDO	N415420.42	W0703456.04	N4154.340	W07034.934	
FRILL	N421347.53	W0694928.72	N4213.792	W06949.479	
GLYDE	N421603.84	W0714842.76	N4216.064	W07148.713	
HANAA	N431152.06	W0733646.17	N4311.868	W07336.770	
HYLND	N424651.12	W0711631.08	N4246.852	W07116.518	
LBSTA	N424800.00	W0703648.70	N4248.000	W07036.812	
NELIE	N415627.64	W0724118.88	N4156.461	W07241.315	
PATSS	N420520.66	W0714239.03	N4205.344	W07142.651	
REVSS	N422043.57	W0714837.07	N4220.726	W07148.618	
SSOXS	N415012.62	W0704446.26	N4150.210	W07044.771	
RW05	N422748.37	W0711748.73	N4227.806	W07117.812	
RW11	N422818.57	W0711801.23	N4228.310	W07118.021	
RW23	N422828.59	W0711707.59	N4228.477	W07117.127	
RW29	N422809.97	W0711628.42	N4228.166	W07116.474	
RUNWAY DATA	THRESHOLD				
RWY	ELEVATION	TCH			
RW05	00128	62			
RW11	00132	50			
RW23	00128	53			
RW29	00123	55			

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