

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.
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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NORWOOD	ONE	OWD1.OWD	NINE	10 MAR 11	27 JUN 2013

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10: CLIMB HEADING 103.74 TO 1100, THEN AS ASSIGNED BY ATC, THENCE...
 TAKEOFF RWY 17: CLIMB HEADING AS ASSIGNED BY ATC, THENCE...
 TAKEOFF RWY 28: CLIMB HEADING 283.76 TO 700, THEN AS ASSIGNED BY ATC, THENCE...
 TAKEOFF RWY 35: CLIMB HEADING 280 CW 330 AS ASSIGNED BY ATC, THENCE...

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

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 10, 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 340FT PER NM TO 500.
 RWY 17, 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220FT PER NM TO 500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1700 FT PRIOR TO DER.
 RWY 28, 400-2 OR STANDARD WITH MINIMUM CLIMB OF 385 FT PER NM TO 500.
 RWY 35, 400-21/2 OR STANDARD WITH MINIMUM CLIMB OF 230FT PER NM TO 500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2100 FT PRIOR TO DER.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 10, TREES BEGINNING 184 FT FROM DER, 34 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/124 FT MSL. BUSHES AND TREES BEGINNING 75 FT FROM DER, 177 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/118 FT MSL. TREES 4488 FT FROM DER, 910 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/237 FT MSL. TREES 1.9 NM FROM DER, 2124 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/346 FT MSL.

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NOTE: RWY 17, TREES BEGINNING 42 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/126 FT MSL. TREES BEGINNING 611 FT FROM DER, 616 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/124 FT MSL. TREES 1.4 NM FROM DER, 2182 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/257 FT MSL. TREES 2.1 NM FROM DER, 3301 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/346 FT MSL.

NOTE: RWY 28, ELECTRICAL SYSTEM, BUILDING, AND TREES BEGINNING 593 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/188 FT MSL. BUILDING, POLE, AND TREES BEGINNING 549 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/170 FT MSL. TOWER 4465 FT FROM DER, 238 FT RIGHT OF CENTERLINE, 157 FT AGL/262 FT MSL. TREES 1.7 NM FROM DER, 672 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/365 FT MSL.

NOTE: RWY 35, TREES BEGINNING 647 FT FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/133 FT MSL. TREES BEGINNING 694 FT FROM DER, 60 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/125 FT MSL. TREES 1.7 NM FROM DER, 2381 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/306 FT MSL. SPIRE 1.8 NM FROM DER, 5232 FT LEFT OF CENTERLINE, 96 FT AGL/364 FT MSL.

CONTROLLING OBSTACLES:

RWY 10: 237 FT MSL TREES 421124.41N/0710849.69W. 346 FT MSL TREES 421155.85N/0710718.21W.
RWY 17: 257 FT MSL TREES 421004.26N/0710909.12W. 346 FT MSL TREES 420909.52N/0710954.94W.
RWY 28: 262 FT MSL TOWER 421133.00N/0711142.00W. 365 FT MSL TREES 421136.07N/0711257.65W.
RWY 35: 306 FT MSL TREES 421245.98N/0711158.64W. 364 FT MSL SPIRE 421251.74N/0711245.65W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 10-870 FT MSL TOWER 421242.00N/0710648.00W. RWY 28-1449 FT MSL TOWER 421837.00N/0711412.00W. RWY 35-1449 FT MSL TOWER 421837.00N/0711412.00W.

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 DME AT LBSTA.
CHART: BAF R-107/24.9 DME AT ONEPS.

AIRPORTS SERVED:

NORWOOD MEMORIAL, NORWOOD, MA

COMMUNICATIONS:

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

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FIXES AND/OR NAVAIDS:

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

REMARKS: