

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	TWO	EPKEE2.WEEDS	ONE	1/10/2013	22 AUG 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

DENVER INTL:

TAKEOFF RWY 8, CLIMB HEADING 082.53 TO INTERCEPT COURSE 105.56 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY16L, CLIMB HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY16R, CLIMB HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY17L, CLIMB HEADING 172.54 TO INTERCEPT COURSE 127.46 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY17R, CLIMB HEADING 172.53 TO INTERCEPT COURSE 117.95 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY 25, CLIMB HEADING 262.51 TO 5934, THEN CONTINUE CLIMB HEADING 262.51 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO EPKEE, THENCE...

TAKEOFF RWY 34L, CLIMB HEADING 352.51 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY 34R, CLIMB HEADING 352.51 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY35L, CLIMB HEADING 352.53 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY35R, CLIMB HEADING 352.54 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO VCTRE, THEN ON TRACK 109.90 TO EPKEE, THENCE...

...ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CENTENNIAL:

TAKEOFF RWY 17L /17R, CLIMB HEADING 169.95 TO 6400, THEN CONTINUE CLIMB HEADING 169.95 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 35L /35R, CLIMB HEADING 349.95 TO 6400, THEN CONTINUE CLIMB HEADING 349.95 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER

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FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:

TAKEOFF RWY 11L, 11R: CLIMB HEADING BETWEEN 150 CCW 350 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RWY 29L, 29R, CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 113 AS ASSIGNED BY ATC. THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FORT COLLINS-LOVELAND MUNI:

TAKEOFF RWY 15, CLIMB HEADING BETWEEN 180 CCW 350 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RWY 33, CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 150 AS ASSIGNED BY ATC. THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FRONT RANGE:

TAKEOFF RWY 8, CLIMB HEADING 083.15 TO 6020, THEN CONTINUE CLIMB HEADING 083.15 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 17, CLIMB HEADING 171.99 TO 6020, THEN CONTINUE CLIMB HEADING 171.99 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 26, CLIMB HEADING 263.17 TO 6020, THEN CONTINUE CLIMB HEADING 263.17 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 35, CLIMB HEADING 351.99 TO 6020, THEN CONTINUE CLIMB HEADING 351.99 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 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
DUUCE	EPKEE2.DUUCE	WEEDS	DUUCE	131.32	30.77	14000		
GATTR	EPKEE2.GATTR	WEEDS	GATTR	102.05	28.18	14000		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: TURBOJETS ONLY.

NOTE: DENVER INTL AIRPORT – TAKEOFF RWY 8, 16L, 16R, 17L, 17R, 34L, 34R, 35L, 35R – RADAR REQUIRED FOR NON GPS EQUIPPED AIRCRAFT.

NOTE: DENVER INTL AIRPORT - RWY 25 DEPARTURES – RADAR REQUIRED.

NOTE: ROCKY MOUNTAIN METROPOLITAN AIRPORT, FORT COLLINS-LOVELAND MUNICIPAL AIRPORT, FRONT RANGE AIRPORT AND CENTENNIAL AIRPORT - RADAR REQUIRED.

NOTE: ACCELERATE TO AT OR ABOVE 250 KNOTS ABOVE 10000. IF SLOWER SPEED IS REQUIRED TO MEET CROSSING RESTRICTIONS ADVISE CLNC DLVRY PRIOR TO TAXI

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TAKEOFF MINIMUMS:**DENVER INTL:**

RWY 7, 26: NA - ATC

RWY 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 255 FT PER NM TO 14000.

RWY 16L: STANDARD WITH MINIMUM CLIMB OF 245 FT PER NM TO 14000.

RWY 16R: STANDARD WITH MINIMUM CLIMB OF 450 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 245 FT PER NM TO 14000.

RWY 17L: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 280 FT PER NM TO 14000.

RWY 17R: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 250 FT PER NM TO 14000.

RWY 25: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934.

RWY 34L: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 215 FT PER NM TO 14000.

RWY 34R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 220 FT PER NM TO 14000.

RWY 35L: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 230 FT PER NM TO 14000.

RWY 35R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 235 FT PER NM TO 14000.

CENTENNIAL:

RWY 10, 28: NA - ATC

RWY 35L, 35R: STANDARD

RWY 17L: STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 8000.

RWY 17R: STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000.

ROCKY MOUNTAIN METROPOLITAN:

RWY 2, 20: NA - ATC

RWY 11R, 11L, 29R, STANDARD.

RWY 29L, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 5900.

FORT COLLINS-LOVELAND MUNI:

RWY 6, 24, NA - VFR RUNWAY.

RWY 15, 33, STANDARD.

FRONT RANGE:

RWY 8, 17, 26, 35, STANDARD.

TAKEOFF OBSTACLES NOTES:**DENVER INTL:**

NOTE: RWY 16L, MULTIPLE SIGNS BEGINNING 126 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/5359 FT MSL. COMMUNICATION TWR 4749 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 107 FT AGL/5478 FT MSL.

NOTE: RWY 25, SIGN 48 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 6 FT AGL/5354 FT MSL.

ROCKY MOUNTAIN METROPOLITAN:

NOTE: RWY 29L: TERRAIN BEGINNING 23 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 5708 FT MSL. FENCE 982 FT FROM DER, 303 FT LEFT OF CENTERLINE, 14 FT AGL/5714 FT MSL. FENCE 1015 FT FROM DER, 392 FT LEFT OF CENTERLINE, 15 FT AGL/5725 FT MSL. MULTIPLE TREES BEGINNING 687 FT FROM DER, 615 FT RIGHT OF CENTERLINE UP TO 70 FT AGL/5839 FT MSL. TREE 3196 FT FROM DER, 1337 FT LEFT OF CENTERLINE, 70 FT AGL/5839 FT MSL.

CENTENNIAL:

NOTE: RWY 17L, TREES BEGINNING 2968 FT FROM DER, 761 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/5976 FT MSL.

NOTE: RWY 17R, TERRAIN 181 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 5887 FT MSL. FENCE 538 FT FROM DER, 196 FT RIGHT OF CENTERLINE, 8 FT AGL/5886 FT MSL. TREES BEGINNING 562 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/5976 FT MSL. MULTIPLE LIGHT POLES BEGINNING 2362 FT FROM DER, 256 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/5942 FT MSL. OBSTRUCTION LIGHT ON BUILDING 3282 FT FROM DER, 842 FT RIGHT OF CENTERLINE, 90 FT AGL/6021 FT MSL.

FORT COLLINS-LOVELAND MUNI:

NOTE: RWY 33, TREES BEGINNING 833 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/5025 FT MSL. MULTIPLE POLES BEGINNING 567 FT FROM DER, 540 FT LEFT OF CENTERLINE, UP TO 26 FT AGL/4995 FT MSL.

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FRONT RANGE:

NOTE: RWY 17, POLE 3618 FT FROM DER, 516 FT LEFT OF CENTERLINE, 43 FT AGL/5603 FT MSL.

NOTE: RWY 26, TREES BEGINNING 98 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5489 FT MSL.

CONTROLLING OBSTACLES:**CENTENNIAL:**

RWY 17L: 6559 FT MSL AAO 392953.93N/1045044.26.

RWY 17R: 6021 FT MSL OBS LT ON BLDG: 393302.52N/1045119.43W, 6559 FT MSL AAO 392953.93N/1045044.26W.

ROCKY MOUNTAIN METROPOLITAN:

RWY 29L: 5839 FT MSL TREE 395457.98N/1050837.12W.

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

REFERENCE MAG VAR: KDEN 8E EPOCH YR: 2015

DME/DME ASSESSMENT: SAT (RNP 2.0)

PILOT NAVIGATION AREA:

10 NM ARC CENTERED ON EPKEE (IF), CW FROM: POINT A (BEARING 055.55 DEGREES TO EPKEE): TO: POINT B (BEARING 145.55 DEGREES TO EPKEE):

MINIMUM ALTITUDE - 14000

AIRPORTS SERVED:

DENVER INTL
ROCKY MOUNTAIN METROPOLITAN
CENTENNIAL
FRONT RANGE
FORT COLLINS-LOVELAND MUNI

DENVER, CO
DENVER, CO
DENVER, CO
DENVER, CO
FORT COLLINS/LOVELAND, CO

COMMUNICATIONS:**DENVER INTL:**

ATIS, CLEARANCE DELIVERY, DEP CON

CENTENNIAL AIRPORT:

ATIS, CLEARANCE DELIVERY, DEP CON

ROCKY MOUNTAIN METROPOLITAN:

ATIS, CLEARANCE DELIVERY, DEP CON

FORT COLLINS-LOVELAND MUNICIPAL:

DEP CON

FRONT RANGE:

ATIS, CLEARANCE DELIVERY, DEP CON

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FIXES AND/OR NAVAIDS:

REMARKS:

CLIMB GRADIENTS AT CENTENNIAL OFF RWY 17L/R ARE OBSTACLE DRIVEN WITH THE CLIMB TO ALTITUDE DETERMINED BY LOCATION OF 8000 MVA AND PROXIMITY TO HIGHER MVA'S.

DENVER INTL CLIMB GRADIENTS ARE FOR FMS ENGAGEMENT AT SPECIFIC LOCATIONS AND FOR CROSSING APUUU AT/ABOVE 14000/CROSSING CLAMR AT/ABOVE FL300.

THE AIRLINE INDUSTRY HAS REQUESTED THAT BLOCK ALTITUDES NOT BE PUBLISHED ON THE PROCEDURE, WAIVER SUBMITTED TO REMOVE AT/ABOVE ALTITUDES ASSOCIATED WITH CROSS AT OR BELOW ALTITUDES.

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CHANGES:

1. REMOVE AT/BELOW FL230 AT VCTRE
2. CHANGED NOTE TO READ - ACCELERATE TO AT OR ABOVE 250 KNOTS ABOVE 10000. IF SLOWER SPEED IS REQUIRED TO MEET CROSSING RESTRICTIONS ADVISE CLNC DLVRY PRIOR TO TAXI

REASONS:

- 1, 2. ATC REQUEST

