

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EL TORO	TWO	ELB2.ELB	ONE	10/22/2009	06 FEB 2014

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 01L: CLIMB HEADING 013.91 FOR VECTORS TO ELB VOR/DME, THEN VIA (TRANSITION) OR (ASSIGNED ROUTE). EXPECT FILED ALTITUDE TEN 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
OCEANSIDE	ELB2.OCN	ELB VOR/DME	SUBMR	165.00 (ELB R-165)	18.24	14000	3300	OCN AT/ABOVE 14000
		SUBMR	OCN VORTAC	102.00 (OCN R-282)	17.32	14000	2300	
THERMAL	ELB2.TRM	ELB VOR/DME	MANBY	095.00 (ELB R-095)	4.65	12000	3600	BOLDE AT/ABOVE 12000
		MANBY	MISIE	095.00 (ELB R-095)	5.01	12000	5500	
		MISIE	BOLDE	095.00 (ELB R-095)	7.71	12000	6800	
		BOLDE	PUNIE	061.12 (SXC R-061)	4.92	12000	5500	
		PUNIE	TEYKI	061.12 (SXC R-061)	23.28	12000	7200	
		TEYKI	HAPPE	083.12 (TRM R-263)	9.99	13100		
		HAPPE	BALDI	083.12 (TRM R-263)	8.00	13100	11100	
		BALDI	CORLA	083.12 (TRM R-263)	11.00	13100	7500	
IMPERIAL	ELB2.IPL	ELB VOR/DME	MANBY	095.00 (ELB R-095)	4.65	12000	3600	BOLDE AT/ABOVE 12000
		MANBY	MISIE	095.00 (ELB R-095)	5.01	12000	5500	
		MISIE	BOLDE	095.00 (ELB R-095)	7.71	12000	6800	
		BOLDE	JARDO	095.00 (ELB R-095)	7.24	12000	6800	
		JARDO	BONDO	134.69 (PDZ R-135)	24.02	12000	4400	
		BONDO	WODON	134.69 (PDZ R-135)	28.97	12000	6400	
		WODON	GWIRE	075.85 (MZB R-076 & IPL R-258)	42.22	12000		
		GWIRE	IPL VORTAC	077.78 (IPL R-258)	20.14	12000		



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PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RESTRICTED TO TURBOJET AND TURBOPROP AIRCRAFT ONLY.

NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS: RWY 01R, 19L, 19R, NA - ATC. RWY 01L, STANDARD WITH MINIMUM CLIMB OF 385' PER NM TO 5600'.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 01L, MULTIPLE TREES BEGINNING 466' FROM DER, 553' LEFT OF CENTERLINE, UP TO 85' AGL/127' MSL. LIGHT POLE 94' FROM DER, 490' LEFT OF CENTERLINE, 21' AGL/63' MSL. OBSTRUCTION LIGHT ON DME 497' FROM DER, 625' RIGHT OF CENTERLINE, UP TO 13' AGL/55' MSL

CONTROLLING OBSTACLES:

RWY 01L: 4119 MSL AAO 334750.76N/1173725.43W

LOST COMMUNICATIONS PROCEDURES:

IF NOT IN CONTACT WITH DEPARTURE CONTROL BY ELB R-332, TURN RIGHT DIRECT ELB VOR/DME, CLIMB TO 7000 AND PROCEED VIA ASSIGNED TRANSITION OR ROUTE. CLIMB TO FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

ADDITIONAL FLIGHT DATA:

CHART J2 BETWEEN WODON AND GWIRE

CHART SXC R-061 AT BOLDE

CHART ELB R-332

AIRPORTS SERVED:

JOHN WAYNE-ORANGE COUNTY

SANTA ANA, CA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GND CON, TWR, SOCAL TRACON

FIXES AND/OR NAVAIDS:

SXC VORTAC, PDZ VORTAC, RAL VOR, JLI VORTAC, PSP VORTAC, MZB VORTAC

REMARKS:

INSTRUCTED TO TREAT THIS UPDATE AS A MINOR AMENDMENT, DID NOT REBUILD PROCEDURE, DID NOT CREATE NEW MAPS, TABLE TOP FLIGHT INSPECTION REQUESTED.

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CHANGES:

1. REMOVED ALL REFERENCE OF (ATC)
2. REMOVED ATC CLIMB GRADIENTS IN TAKEOFF MINIMUMS.
3. TAKEOFF OBSTACLE NOTES UPDATED.

REASONS:

- 1, 2. NOT AUTHORIZED IAW CURRENT CRITERIA.
3. TO AGREE WITH CURRENTLY PUBLISHED TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES DATA.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EL TORO	TWO	ELB2.ELB	ONE	10/22/2009	06 FEB 2014

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSN	AK2	DEL	B2	1R	W01	L	010					
SUSAP	KSN	AK2	DEL	B2	1R	W01	L	020	ELB	K2D	0VE		
SUSAP	KSN	AK2	DEL	B2	3I	PL		010	ELB	K2D	0V		
SUSAP	KSN	AK2	DEL	B2	3I	PL		020	MAN	BYK	2PC	0E	
SUSAP	KSN	AK2	DEL	B2	3I	PL		030	MIS	IEK	2PC	0E	
SUSAP	KSN	AK2	DEL	B2	3I	PL		040	BOL	DEK	2PC	0E	
SUSAP	KSN	AK2	DEL	B2	3I	PL		050	JAR	DOK	2PC	0E	



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[illegible]

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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW01L		010		VM		FB		013.9 ()			
	RW01L	ELB	020		DF		FB					
	IPL	ELB	010		IF		FB					
	IPL	MANBY	020		TF		FB					
	IPL	MISIE	030		TF		FB				AA 12000	
	IPL	BOLDE	040		TF		FB					
	IPL	JARDO	050		TF		FB					
	IPL	BONDO	060		TF		FB					
	IPL	WODON	070		TF		FB					
	IPL	GWIRE	080		TF		FB					
	IPL	IPL	090		TF		FB					
	OCN	ELB	010		IF		FB					
	OCN	SUBMR	020		TF		FB					
	OCN	OCN	030		TF		FB				AA 14000	
	TRM	ELB	010		IF		FB					
	TRM	MANBY	020		TF		FB					
	TRM	MISIE	030		TF		FB					
	TRM	BOLDE	040		TF		FB				AA 12000	
	TRM	PUNIE	050		TF		FB					
	TRM	TEYKI	060		TF		FB					
	TRM	HAPPE	070		TF		FB					
	TRM	BALDI	080		TF		FB					
	TRM	CORLA	090		TF		FB					
	TRM	TRM	100		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ELB	N334033.71	W1174351.90	N3340.562	W11743.865
	IPL	N324455.92	W1153030.90	N3244.932	W11530.515
	OCN	N331426.28	W1172503.79	N3314.438	W11725.063
	TRM	N333741.14	W1160936.71	N3337.686	W11609.612
	BALDI	N333928.48	W1162951.69	N3339.475	W11629.862
	BONDO	N331139.63	W1170138.25	N3311.661	W11701.638
	CORLA	N333819.40	W1161645.41	N3338.323	W11616.757
	GWIRE	N324531.26	W1155422.84	N3245.521	W11554.381
	HAPPE	N334017.85	W1163923.74	N3340.298	W11639.396
	BOLDE	N333452.12	W1172412.06	N3334.869	W11724.201
	JARDO	N333228.85	W1171601.21	N3332.481	W11716.020
	MANBY	N333902.59	W1173835.89	N3339.043	W11738.598
	MISIE	N333724.10	W1173255.36	N3337.402	W11732.923
	PUNIE	N333600.14	W1171827.96	N3336.002	W11718.466
	SUBMR	N332217.50	W1174329.09	N3322.292	W11743.485

QUALITY
11
CHECKED

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TEYKI	N334118.35	W1165118.59	N3341.306	W11651.310
WODON	N324630.64	W1164426.38	N3246.511	W11644.440
RW01L	N334004.09	W1175225.79	N3340.068	W11752.430

RUNWAY DATA

	THRESHOLD	
RWY	ELEVATION	TCH
RW01L	00056	51

