

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
FSHUN (RNAV)	FOUR	FSHUN4.FSHUN	THREE	05/19/2022	12 JUN 2025

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17L: CLIMB ON HEADING 185.48 TO INTERCEPT COURSE 215.22 TO CROSS BAAIT AT OR ABOVE 1500, THEN ON TRACK 185.43, FOR VECTORS TO FSHUN, THENCE...

TAKEOFF RWY 17R: CLIMB ON HEADING 185.47 TO INTERCEPT COURSE 210.81 TO CROSS BAAIT AT OR ABOVE 1500, THEN ON TRACK 185.43, FOR VECTORS TO FSHUN, THENCE...

TAKEOFF RWY 18L: CLIMB ON HEADING 185.46 TO 596, THEN DIRECT BAAIT AT OR ABOVE 1500, THEN ON TRACK 185.43, FOR VECTORS TO FSHUN, THENCE...

TAKEOFF RWY 18R: CLIMB ON HEADING 185.46 TO 596, THEN DIRECT BAAIT AT OR ABOVE 1500, THEN ON TRACK 185.43, FOR VECTORS TO FSHUN, THENCE...

...THEN ON TRANSITION, MAINTAIN 7000 FT. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TAKEOFF RWY 35L: CLIMB ON HEADING 005.47 TO INTERCEPT COURSE 355.00 TO CROSS SAWZZ AT OR ABOVE 2300, THEN ON TRACK 344.78 TO CROSS HANDD AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 337.54 TO CROSS LEFTI AT OR ABOVE 4000 AND AT 230 KIAS, THENCE...

TAKEOFF RWY 35R: CLIMB ON HEADING 005.48 TO INTERCEPT COURSE 343.21 TO CROSS SAWZZ AT OR ABOVE 2300, THEN ON TRACK 344.78 TO CROSS HANDD AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 337.54 TO CROSS LEFTI AT OR ABOVE 4000 AND AT 230 KIAS, THENCE...

TAKEOFF RWY 36L: CLIMB ON HEADING 005.46 TO 596, THEN DIRECT KYOTE AT OR ABOVE 2300, THEN ON TRACK 005.61 TO CROSS EARRS AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 342.13 TO CROSS LEFTI AT OR ABOVE 4000 AND AT 230 KIAS, THENCE...

TAKEOFF RWY 36R: CLIMB ON HEADING 005.46 TO 596, THEN DIRECT FACTS AT OR ABOVE 2300, THEN ON TRACK 358.99 TO CROSS EARRS AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 342.13 TO CROSS LEFTI AT OR ABOVE 4000 AND AT 230 KIAS, THENCE...

...THEN ON TRACK 275.43 TO CROSS BLOSM AT OR BELOW 7000, THEN ON TRACK 195.32 TO DADTI, THEN ON TRACK 181.48 TO FSHUN, THEN ON TRANSITION, MAINTAIN 7000 FT. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ALL AIRCRAFT: ATC CLIMB GRADIENTS: IF UNABLE TO ACCEPT CLIMB GRADIENTS RATES ADVISE ATC PRIOR TO TAXI. RWY 36L: 599 FT/NM TO 2300, RWY 36R: 589 FT/NM TO 2300.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
PLUMR	FSHUN4.PLUMR	FSHUN	PLUMR	TRACK 223.30	16.71	8000	1700	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

PROCEDURAL DATA NOTES:

NOTE: JET AND TURBO-PROP AIRCRAFT ONLY.



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FSHUN (RNAV)	FOUR	FSHUN4.FSHUN	THREE	05/19/2022	12 JUN 2025

TAKEOFF MINIMUMS:

RWY 17L, 17R, 18L, 18R, 35L, 35R, 36L, 36R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 596.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:**MSA:**

MSA FROM MCO, 3000.

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

CHART: ORL.

CHART: TOP ALTITUDE: 7000.

AIRPORT MV: MCO 06W/2015.

DME/DME ASSESSMENT: SAT (RNP 2.0).

CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT HANDD.

CHART SPEED ICON MANDATORY SPEED 230 KIAS AT LEFTI.

CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT EARRS.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MCO	ORLANDO	FL

COMMUNICATIONS:

CHART: ATIS, CLNC DEL, GND, TWR, CPDLC

FIXES AND/OR NAVAIDS:**REMARKS:**

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP.

WAIVER ON FILE TO PUBLISH ATC CLIMB GRADIENTS.

WAIVER ON FILE TO NOT CHART IF ALTITUDE AT THE IF FOR RADAR VECTORS (RV).

APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FEET PER NM.

FLIGHT INSPECTED BY

JONATHAN R WEAVER

SIGNATURE

Digitally signed by

ERIC N SUSKI

Mar 18, 2025

OFFICE

AJF

DATE

03/06/2025

DEVELOPED BY

GIORGIA FERREIRA

SIGNATURE

Digitally signed by

ERIC N SUSKI

Mar 18, 2025

OFFICE

AJV-A421

DATE

01/07/2025

APPROVED BY

JOHN BORDY

SIGNATURE

Digitally signed by

ERIC N SUSKI

Mar 18, 2025

OFFICE

AJV-A33

DATE**TITLE**

MANAGER

QUALITY
23
CHECKED

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FSHUN (RNAV)	FOUR	FSHUN4.FSHUN	THREE	05/19/2022	12 JUN 2025

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZJX, ZMA, MCO APP CON, MCO ATCT, AMGR

CHANGES - REASONS:

- MOVED FSHUN ENE 7.75 NM (N027 55' 4.94"/W081 30' 15.71") - TO CLEAR JUMP ZONE.
- MOVED PLUMR NNW 1.00 NM (N027 41' 44.77"/W081 41' 40.18") - TO CLEAR MLKPLACIDE MOA.
- CHANGED ALTITUDE RESTRICTION FOR RWYS 18L, 18R, 36L, 36R FROM "600FT" TO "596FT" - PER FPT REQUEST.
- REMOVED TUPPY FROM PROCEDURE DUE TO LEG LENGTH FAILURE.
- ADDED MSA "MSA FROM MCO, 3000" - IAW 8260.46J.
- ADDED FIX DADTI TO ENSURE SPACING FROM GRNCH STAR (N028 20' 47.49"/W081 32' 33.11") - PER FPT REQUEST.
- REMOVED ATC CLIMB GRADIENT FOR RWY 35R - PER FPT REQUEST.
- CHANGED DISTANCE BETWEEN FSHUN AND PLUMR FROM "10.70" TO "16.71"- FSHUN MOVED.
- ADDED "RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT" - IAW 8260.46J 2-1-1F(5).
- MINIMUMS CHANGED FROM "STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 600" TO "STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 596" - PER FPT REQUEST.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
FSHUN (RNAV)					FOUR	FSHUN4.FSHUN	THREE	05/19/2022	12 JUN 2025
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW17L (AER)	282637.31N/0811657.29W	N	-	-	-	-			
-	282406.56N/0811655.75W	-	-	VI	179.48	2.51			CG 500 FT PER NM TO 596
BAAIT	281958.75N/0811932.52W	Y	FB	CF	209.22	4.72	AT/ABOVE 1500		
BAAIT	281958.75N/0811932.52W	-	-	FM	179.43	-			
RW17R (AER)	282608.20N/0811745.17W	N	-	-	-	-			
-	282327.32N/0811743.49W	-	-	VI	179.47	2.67			CG 500 FT PER NM TO 596
BAAIT	281958.75N/0811932.52W	Y	FB	CF	204.81	3.82	AT/ABOVE 1500		
BAAIT	281958.75N/0811932.52W	-	-	FM	179.43	-			
RW18L (AER)	282654.00N/0811920.30W	N	-	-	-	-			
596 MSL	-	-	-	VA	179.46	-	AT/ABOVE 596		CG 500 FT PER NM TO 596
BAAIT	281958.75N/0811932.52W	Y	FB	DF	-	-	AT/ABOVE 1500		
BAAIT	281958.75N/0811932.52W	-	-	FM	179.43	-			
RW18R (AER)	282653.86N/0811937.11W	N	-	-	-	-			
596 MSL	-	-	-	VA	179.46	-	AT/ABOVE 596		CG 500 FT PER NM TO 596
BAAIT	281958.75N/0811932.52W	Y	FB	DF	-	-	AT/ABOVE 1500		
BAAIT	281958.75N/0811932.52W	-	-	FM	179.43	-			
RW35L (AER)	282429.20N/0811744.13W	N	-	-	-	-			
-	282722.52N/0811745.94W	-	-	VI	359.47	2.88			CG 500 FT PER NM TO 596

QUALITY

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FSHUN (RNAV)		FOUR		FSHUN4.FSHUN		THREE		05/19/2022	12 JUN 2025
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
SAWZZ	283100.60N/0811833.91W	Y	FB	CF	349.00	3.69	AT/ABOVE 2300		
HANDD	283254.38N/0811923.95W	Y	FB	TF	338.78	2.03	AT/ABOVE 3000	AT/BELOW 230K	
LEFTI	283551.04N/0812112.48W	Y	FB	TF	331.54	3.34	AT/ABOVE 4000	AT 230K	
RW35R (AER)	282508.20N/0811656.38W	N	-	-	-	-			
-	282738.70N/0811657.92W	-	-	VI	359.48	2.50			CG 500 FT PER NM TO 596
SAWZZ	283100.60N/0811833.91W	Y	FB	CF	337.21	3.64	AT/ABOVE 2300		
HANDD	283254.38N/0811923.95W	Y	FB	TF	338.78	2.03	AT/ABOVE 3000	AT/BELOW 230K	
LEFTI	283551.04N/0812112.48W	Y	FB	TF	331.54	3.34	AT/ABOVE 4000	AT 230K	
RW36L (AER)	282455.01N/0811935.83W	N	-	-	-	-			
596 MSL	-	-	-	VA	359.46	-	AT OR ABOVE 596		CG 599 FT PER NM TO 2300
KYOTE	283035.80N/0811939.50W	Y	FB	DF	-	-	AT/ABOVE 2300		
EARRS	283247.62N/0811940.52W	Y	FB	TF	359.61	2.19	AT/ABOVE 3000	AT/BELOW 230K	
LEFTI	283551.04N/0812112.48W	Y	FB	TF	336.13	3.33	AT/ABOVE 4000	AT 230K	
RW36R (AER)	282455.15N/0811919.04W	N	-	-	-	-			
596 MSL	-	-	-	VA	359.46	-	AT OR ABOVE 596		CG 589 FT PER NM TO 2300
FACTS	283039.75N/0811922.71W	Y	FB	DF	-	-	AT/ABOVE 2300		
EARRS	283247.62N/0811940.52W	Y	FB	TF	352.99	2.14	AT/ABOVE 3000	AT/BELOW 230K	
LEFTI	283551.04N/0812112.48W	Y	FB	TF	336.13	3.33	AT/ABOVE 4000	AT 230K	
LEFTI	283551.04N/0812112.48W	Y	-	IF	-	-	AT/ABOVE 4000	AT 230K	
BLOSM	283546.29N/0812946.32W	Y	FB	TF	269.43	7.54	AT/BELOW 7000		

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FSHUN (RNAV)		FOUR		FSHUN4.FSHUN		THREE		05/19/2022	12 JUN 2025
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
DADTI	282047.49N/0813233.11W	Y	FB	TF	189.32	15.14			
FSHUN	275504.94N/0813015.71W	Y	FB	TF	175.48	25.72			
FSHUN	275504.94N/0813015.71W	Y	-	IF	-	-			FSHUN4.PLUMR
PLUMR	274144.77N/0814140.18W	Y	FB	TF	217.30	16.71			

