

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD TERMINAL ARRIVAL (STAR)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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<u>Arrival Name</u>	<u>Number</u>	<u>STAR Computer Code</u>	<u>Superseded Number</u>	<u>Dated</u>	<u>Effective Date</u>
VANZE (RNAV)	TWO	VANZE.VANZE2	ONE	02/06/2014	1 FEB 2018

TRANSITION ROUTES:

Transition Name	Transition Computer Code	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitude/Fixes
CRAMM	CRAMM.VANZE2	CRAMM	VANZE	285.89	9.60	6000			AT/BELOW FL230
TALLO	TALLO.VANZE2	TALLO	FASON	267.92	32.00	FL180			AT/ABOVE FL240
		FASON	CRAMM	267.55	36.76	10000			AT/BELOW FL230
		CRAMM	VANZE	285.89	9.60	6000			AT/BELOW FL230
WASER	WASER.VANZE2	WASER	ERASE	302.01	15.00	FL180			AT/ABOVE FL240
		ERASE	CRAMM	301.86	35.24	10000			AT/BELOW FL230
		CRAMM	VANZE	285.89	9.60	6000			AT/BELOW FL230

ARRIVAL ROUTE DESCRIPTION:

LANDING SOUTH: RWY 18L/18C/18R: FROM OVER VANZE ON TRACK 286.71/9.05 NM TO MASHH, CROSS MASHH AT/BELOW 16000 AND AT/ABOVE 14000 AT 280 KIAS (MEA 6000), THEN ON TRACK 286.12/12.00 NM TO HLI VORTAC (MEA 6000), THEN ON TRACK 302.55/10.15 NM TO LARUE, CROSS LARUE AT/BELOW 12000 AND AT/ABOVE 10000 AT 250 KIAS (MEA 6000), THEN ON TRACK 302.45/8.14 NM TO FLOND, CROSS FLOND AT/BELOW 11000 AND AT/ABOVE 9000 (MEA 6000), THEN ON TRACK 302.42/2.66 NM TO SUUZE (MEA 6000), THEN ON TRACK 359.92/2.89 NM TO MEBEE, CROSS MEBEE AT/BELOW 10000 AND AT/ABOVE 8000 AT 210 KIAS (MEA 6000), THEN ON TRACK 000.10/4.00 NM TO HADSO, CROSS HADSO AT/BELOW 8000 AND AT/ABOVE 6000 (MEA 4000), THEN ON TRACK 000.01/13.61 NM TO HEXIN, CROSS HEXIN AT 3000 (MEA 3000) THEN ON TRACK 000.01. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING NORTH: RWY 36L/36C/36R/9/27: FROM OVER VANZE ON TRACK 284.20/11.00 NM TO FASOP, CROSS FASOP AT 10000 AT 230 KIAS (MEA 6000), THEN ON TRACK 284.20. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: DESCEND VIA MACH NUMBER UNTIL TRANSITION TO 290 KIAS.

NOTE: RADAR REQUIRED.

NOTE: RNAV 1. NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AIRCRAFT ONLY.

NOTE: EXPECT TO RECEIVE LANDING DIRECTION (NORTH/SOUTH) AND "DESCEND VIA" CLEARANCE FROM MEMPHIS CENTER, MEMPHIS APPROACH WILL ASSIGN LANDING RUNWAY.

NOTE: LANDING SOUTH INDICATES RWY 18L/18C/18R.

NOTE: LANDING NORTH INDICATES RWY 36L/36C/36R/9/27.

CHART: CROSS ERASE, FASON, AND CRAMM AT 290 KIAS. CHART: CROSS VANZE AT 280 KIAS.

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CHART AT HEXIN: "LANDING SOUTH: RWY 18L/18C/18R: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER HEXIN."

CHART AT FASOP: "LANDING NORTH: RWY 36L/36C/36R/9/27: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER FASOP."

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING PATTERNS: FASON (HOLD E, RT, 267.55 INBOUND, 15 NM LEGS); ERASE (HOLD SE, RT, 301.86 INBOUND, 15 NM LEGS); CRAMM (HOLD E, RT, 285.89 INBOUND, 15 NM LEGS); LARUE (HOLD SE, RT, 302.45 INBOUND, 6 NM LEGS).

COMMUNICATIONS:

APP CON

ARR ATIS

AIRPORTS SERVED:

AIRPORT NAME

CITY

STATE

MEMPHIS INTL

MEMPHIS

TN

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

REQUEST NOTE "DESCEND VIA MACH NUMBER UNTIL TRANSITION TO 290 KIAS" BE LISTED FIRST IN CHART NOTES.

VANZE TWO AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGVAR: KMEM 1W/2020.

FLIGHT INSPECTED BY:

ORGANIZATION:

DATE:

FLIGHT INSPECTION REVIEW NOT REQUIRED-PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, MAY 30, 2017.

Flight Inspected Signature:

Digitally signed by

ADOLFO D URRUTIA

Oct 24, 2017

DEVELOPED BY:

Digitally signed by

LIAM DONAHUE

Sep 27, 2017

AJV-5431

09/27/2017

Developed By Signature:

APPROVED BY:

PATRICK MULQUEEN

AJV-5430

Approved By Signature:

Digitally signed by

ADOLFO D URRUTIA

Oct 24, 2017

CHANGES:

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1. INCREASED ALL COURSES AND HEADINGS 2 DEGREES.
2. CHANGED REFERENCE MAGVAR AND EPOCH YEAR IN ADDITIONAL FLIGHT DATA FROM 1E/2000 TO 1W/2020.
3. RECOMMENDED NAVAID CHANGED FROM MEM VORTAC TO SYI VOR/DME.

REASONS:

- 1, 2. AIRPORT MAGNETIC VARIATION CHANGED FROM 1 DEGREE EAST TO 1 DEGREE WEST.
3. REQUIRED DUE TO MAGNETIC VARIATION CHANGE.



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Title:



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

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
VANZE (RNAV)	TWO	VANZE.VANZE2	ONE	02/06/2014	1 FEB 2018

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
EN ROUTE TRANSITION									
GRAMM	343811.05N/0885354.88W	Y		IF			AT/BELOW FL230	290K	GRAMM.VANZE2
VANZE	344038.74N/0890509.72W	Y	FB	TF	284.89	9.60	AT/BLEOW FL230	280K	
EN ROUTE TRANSITION									
TALLO	344221.47N/0873042.38W	Y		IF					TALLO.VANZE2
FASON	344031.98N/0880926.98W	Y	FB	TF	266.92	32.00	AT/ABOVE FL240	290K	
GRAMM	343811.05N/0885354.88W	Y	FB	TF	266.55	36.76	AT/BELOW FL230	290K	
VANZE	344038.74N/0890509.72W	Y	FB	TF	284.89	9.60	AT/BELOW FL230	280K	
EN ROUTE TRANSITION									
WASER	341226.54N/0880143.83W	Y		IF					WASER.VANZE2
ERASE	342010.02N/0881715.32W	Y	FB	TF	301.01	15.00	AT/ABOVE FL240	290K	
GRAMM	343811.05N/0885354.88W	Y	FB	TF	300.86	35.24	AT/BELOW FL230	290K	
VANZE	344038.74N/0890509.72W	Y	FB	TF	284.89	9.60	AT/BELOW FL230	280K	
RUNWAY TRANSITION									
VANZE	344038.74N/0890509.72W	Y		IF			AT/BELOW FL230	280K	

QUALITY
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CHECKED

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VANZE (RNAV)		TWO		VANZE.VANZE2		ONE		02/06/2014	1 FEB 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
FASOP	344309.05N/0891809.21W	Y	FO	TF	283.20	11.00	AT 10000	230K	
RWY 36L/36C/36R, 9,27				FM	283.20				RECOMMENDED NAVAID: SYI VOR/DME
RUNWAY TRANSITION									
VANZE	344038.74N/0890509.72W	Y		IF			AT/BELOW FL230	280K	
MASHH	344305.51N/0891543.70W	Y	FB	TF	285.71	9.05	AT/BELOW 16000 AT/ABOVE 14000	280K	
HLI VORTAC	344612.88N/0892947.47W	Y	FB	TF	285.12	12.00			
LARUE	345131.48N/0894017.81W	Y	FB	TF	301.55	10.15	AT/BELOW 12000 AT/ABOVE 10000	250K	
FLOND	345546.38N/0894844.51W	Y	FB	TF	301.45	8.14	AT/BELOW 11000 AT/ABOVE 9000		
SUUZE	345709.67N/0895130.14W	Y	FB	TF	301.42	2.66			
MEBEE	350003.36N/0895134.12W	Y	FB	TF	358.92	2.89	AT/BELOW 10000 AT/ABOVE 8000	210K	
HADSO	350403.72N/0895138.69W	Y	FB	TF	359.10	4.00	AT/BELOW 8000 AT/ABOVE 6000		
HEXIN	351741.61N/0895155.91W	Y	FO	TF	359.01	13.61	AT 3000		
RWY 18L/18C/18R				FM	359.01				RECOMMENDED NAVAID: SYI VOR/DME

QUALITY
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