

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
FRNCH	FRNCH.SKARF3	FRNCH	FRNCH SKARF TOMSN ALISE DORKE ARCHY	093.53/14.40 093.73/11.60 121.68/10.00 121.79/06.00 121.81/16.66	16000 16000 13100 9600 9100			AT/ABOVE FL250, AT/BELOW FL300 AT/ABOVE FL220, AT/BELOW FL250 AT/ABOVE FL200, AT/BELOW FL220 AT/ABOVE 15000, AT/BELOW 17000 AT 15000

(2) Arrival Route Description: LANDING RW17L: CROSS ARCHY AT 15000 AT 250K (MEA 9100), THEN ON TRACK 121.93/5.23 TO BABAA (MEA 9100), THENCE AS DEPICTED TO CROSS LOWRE AT 7800 (MEA 7800). EXPECT RNAV (GPS) RWY 17L OR VISUAL APPROACH.

LANDING RW35R: CROSS ARCHY AT 15000 AT 250K (MEA 9100), THEN ON TRACK 121.93/5.23 TO BABAA (MEA 9100), THENCE AS DEPICTED TO CROSS FIRPI AT 9000 (MEA 9000). EXPECT ILS RWY 35R OR VISUAL APPROACH.

(3) Procedural Data Notes:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJETS ONLY. NOTE: EXPECT RUNWAY ASSIGNMENT ON INITIAL CONTACT WITH DENVER APPROACH. NOTE: FOR NON-GPS EQUIPPED AIRCRAFT

LANDING APA RW35R, BJC DME MUST BE OPERATIONAL.

CHART 280 KTS AT FRNCH, 270 KTS AT SKARF, 250 KTS AT TOMSN, 250 KTS AT ARCHY.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT FRNCH (HOLD W, LT, 086.51 INBOUND, 15 NM LEGS.) CHART HOLDING AT SKARF (HOLD W, LT, 093.53 INBOUND, 10 NM LEGS.)

(5) Communications: CENTENNIAL TOWER, CENTENNIAL ATIS, DENVER APP CON

(6) Arrival Name SKARF RNAV	(7) Number THREE	(8) STAR Computer Code SKARF.SKARF3	(9) Superseded Nr. TWO	(10) Dated 5/28/13	(11) Effective Date 17 OCT 2013
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QUALITY
4
CHECKED

(12) Airports Served

Airport Name CENTENNIAL	City/State DENVER, CO
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure: IN THE EVENT OF LOSS COMMUNICATIONS PRIOR TO RUNWAY ASSIGNMENT, EXECUTE THE ILS RWY 35R.

(14) Remarks: MOUNTAINOUS TERRAIN REDUCTION TAKEN IN SEGMENTS ENDING AT LOWRE, XSTRA, XFROM, XLENT, XPATH, XBEEE, AND FIRPI.
 08/28/2013: THIS IS A CORRECTED COPY OF THE FORMS DEVELOPED ON 05/28/2013.
 CORRECTED COMPUTER AND TRANSITION CODES FROM FRNCH.SKARF3 TO SKARF.SKARF3.

09/05/2013: THIS IS A CORRECTED COPY OF THE FORMS DEVELOPED ON 05/28/2013.
 CORRECTED COMPUTER AND TRANSITION CODES FROM SKARF.SKARF3 TO FRNCH.SKARF3.

(15) Additional Flight Data:

DME/DME ASSESSMENT: SAT (RNP 2.0).
 REFERENCE MAGNETIC VARIATION = KDEN 8E/2015
 CHART CENTENNIAL AIRPORT



(6) Arrival Name SKARF RNAV	(7) Number THREE	(8) STAR Computer Code SKARF.SKARF3	(9) Superseded Nr. TWO	(10) Dated 5/28/13	(11) Effective Date 17 OCT 2013
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(16) Continuation:**(2) ARRIVAL ROUTE DESCRIPTION (CONT):**

LANDING RW17I: CROSS ARCHY AT 15000 AT 250K (MEA 9100), THEN ON TRACK 121.93/5.23 TO BABAA (MEA 9100), THEN ON TRACK 109.52/6.40 TO CROSS BEEBS AT/ABOVE 12000 (MEA 9000), THEN ON TRACK 172.27/5.31 TO CROSS CREEQ AT 11000 (MEA 9000), THEN ON TRACK 228.51/6.40 TO CROSS BLUKN AT/ABOVE 9000 AND AT/BELOW 9500 AND AT/BELOW 210 KNOTS (MEA 9000), THEN ON TRACK 228.11/3.16 TO CROSS CENIK AT/ABOVE 8500 AND AT/BELOW 9000 (MEA 8500), THEN ON TRACK 174.59/2.20 TO CROSS LOWRE AT 7800 (MEA 7800). EXPECT RNAV (GPS) RWY 17I OR VISUAL APPROACH

LANDING RW35R: CROSS ARCHY AT 15000 AT 250K (MEA 9100), THEN ON TRACK 121.93/5.23 TO BABAA (MEA 9100), THEN ON TRACK 133.43/10.67 TO DEN VORIDME (MEA 9100), THEN ON TRACK 172.53/10.25 TO CELBI (MEA 9100), THEN ON TRACK 172.53/6.40 TO CRUUP (MEA 9100), THEN ON TRACK 172.53/6.47 TO CPPER (MEA 9100), THEN ON TRACK 172.85/3.11 TO CROSS HUUKKAT 15000 AT 210 KTS (MEA 9100), THEN ON TRACK 172.64/5.06 TO CROSS XSTRA AT/ABOVE 14000 (MEA 9100), THEN ON TRACK 172.61/4.11 TO XFROM (MEA 9100), THEN ON TRACK 221.85/4.73 TO CROSS XLENT AT/ABOVE 12000 (MEA 9100), THEN ON TRACK 288.76/4.64 TO XPATH (MEA 9100), THEN ON TRACK 350.19/5.43 TO CROSS XBEEB AT 9000 (MEA 9000), THEN ON TRACK 350.25/2.91 TO CROSS FIRPI AT 9000 (MEA 9000). EXPECT ILS RWY 35R OR VISUAL APPROACH

(17) Changes: 1. MOVED CREEQ WAYPOINT .50 NM North.

(18) Reasons for Changes: 1. ATC REQUEST.



(6) Arrival Name SKARF RNAV	(7) Number THREE	(8) STAR Computer Code SKARF.SKARF3	(9) Superseded Nr. TWO	(10) Dated 5/28/13	(11) Effective Date 17 OCT 2013
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US Department of Transportation Federal Aviation Administration							RNAV STAR (Data Record)		
(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
FRNCH	402641.08N / 1055932.40W	Y		IF			+FL250, -FL300	280K	FRNCH.SKARF3
SKARF	402346.82N / 1054104.41W	Y	FB	TF	101.53	14.40	+FL220, -FL250	270K	
TOMSN	402124.27N / 1052613.05W	Y	FB	TF	101.73	11.60	+FL200, -FL220	250K	
ALISE	401500.47N / 1051609.94W	Y	FB	TF	129.68	10.00			
DORKE	401109.77N / 1051008.99W	Y	FB	TF	129.79	06.00	+15000, -17000		
ARCHY	400027.98N / 1045329.62W	Y	FB	TF	129.81	16.66	15000	250K	
Runway Transition									
ARCHY	400027.98N / 1045329.62W	Y		IF			15000	250K	
BABAA	395706.21N / 1044816.53W	Y	FB	TF	129.93	05.23			
BEEBS	395408.37N / 1044053.97W	Y	FB	TF	117.52	06.40	+12000		
CREEQ_	394849.55N / 1044055.94W	Y	FB	TF	180.27	05.31	11000		
BLUKN	394517.34N / 1044751.13W	Y	FB	TF	236.51	06.40	+9000, -9500	- 210K	
CENIK	394331.50N / 1045115.06W	Y	FB	TF	236.11	03.16	+8500, -9000		
LOWRE	394119.79N / 1045122.76W	Y	FB	TF	182.59	02.20	7800		
(11) Arrival Name SKARF RNAV	(12) Number THREE	(13) STAR Computer Code SKARF.SKARF3		(14) Superseded Nr. TWO		(15) Dated 5/28/13		(16) Effective Date 17 OCT 2013	



US Department of Transportation Federal Aviation Administration							RNAV STAR (Data Record)		
(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
KAPA:APA RW17L									
Runway Transition									
ARCHY	400027.98N / 1045329.62W	Y		IF			15000	250K	
BABAA	395706.21N / 1044816.53W	Y	FB	TF	129.93	05.23			
DEN VOR/DME	394845.05N / 1043938.66W	Y	FB	TF	141.43	10.67			
CELBI	393829.55N / 1043946.04W	Y	FB	TF	180.53	10.25			
CRUUP	393205.28N / 1043950.60W	Y	FB	TF	180.53	06.40			
CPPER	392536.59N / 1043955.22W	Y	FB	TF	180.53	06.47			
HUUKK	392229.63N / 1043958.81W	Y	FB	TF	180.85	03.11	15000	210K	
XSTRA	391725.82N / 1044003.21W	Y	FB	TF	180.64	05.06	+14000		
XFROM	391319.01N / 1044006.57W	Y	FB	TF	180.61	04.11			
XLENT	391015.80N / 1044445.48W	Y	FB	TF	229.85	04.73	+12000		
XPATH	391221.19N / 1045005.46W	Y	FB	TF	296.76	04.64			
XBEEE	391747.21N / 1045018.72W	Y	FB	TF	358.19	05.43	9000		
FIRPI	392042.01N / 1045025.60W	Y	FB	TF	358.25	02.91	9000		
(11) Arrival Name SKARF RNAV		(12) Number THREE		(13) STAR Computer Code SKARF.SKARF3		(14) Superseded Nr. TWO		(15) Dated 5/28/13	(16) Effective Date 17 OCT 2013

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KAPA:RWY 35R BABAA									
(11) Arrival Name SKARF RNAV	(12) Number THREE	(13) STAR Computer Code SKARF.SKARF3		(14) Superseded Nr. TWO		(15) Dated 5/28/13	(16) Effective Date 17 OCT 2013		

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(11) Arrival Name SKARF RNAV	(12) Number THREE	(13) STAR Computer Code SKARF.SKARF3	(14) Superseded Nr. TWO	(15) Dated 5/28/13	(16) Effective Date 17 OCT 2013
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SUSAP	KAPAK2ESKARF34FRNCH	020SKARFK2EA0E	H	010TF		B	FL250FL220	270
SUSAP	KAPAK2ESKARF34FRNCH	030TOMSNK2EA0E		010TF		B	FL220FL200	250
SUSAP	KAPAK2ESKARF34FRNCH	040ALISEK2EA0E		010TF				
SUSAP	KAPAK2ESKARF34FRNCH	050DORKEK2EA0E		010TF		B	1700015000	
SUSAP	KAPAK2ESKARF34FRNCH	060ARCHYK2EA0EE		010TF			15000	250
SUSAP	KAPAK2ESKARF36RW17L	010ARCHYK2EA0E		IF			15000	18000250
SUSAP	KAPAK2ESKARF36RW17L	020BABAABK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW17L	030BEEBSK2EA0E		010TF		+	12000	
SUSAP	KAPAK2ESKARF36RW17L	040CREEQK2EA0E		010TF			11000	
SUSAP	KAPAK2ESKARF36RW17L	050BLUKNK2EA0E		010TF		B	0950009000	210
SUSAP	KAPAK2ESKARF36RW17L	060CENIKK2EA0E		010TF		B	0900008500	
SUSAP	KAPAK2ESKARF36RW17L	070LOWREK2EA0EE		010TF			07800	
SUSAP	KAPAK2ESKARF36RW35R	010ARCHYK2EA0E		IF			15000	18000250
SUSAP	KAPAK2ESKARF36RW35R	020BABAABK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	030DEN K2D 0V		010TF				
SUSAP	KAPAK2ESKARF36RW35R	040CELBK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	050CRUUPK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	060CPPERK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	070HUUKKK2EA0E		010TF			15000	210
SUSAP	KAPAK2ESKARF36RW35R	080XSTRK2EA0E		010TF		+	14000	
SUSAP	KAPAK2ESKARF36RW35R	090XFROMK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	100XLENTK2EA0E		010TF		+	12000	
SUSAP	KAPAK2ESKARF36RW35R	110XPATHK2EA0E		010TF				
SUSAP	KAPAK2ESKARF36RW35R	120XBEEK2EA0E		010TF			09000	
SUSAP	KAPAK2ESKARF36RW35R	130FTRPK2EA0EE		010TF			09000	

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(11) Arrival Name SKARF RNAV	(12) Number THREE	(13) STAR Computer Code SKARF.SKARF3	(14) Superseded Nr. TWO	(15) Dated 5/28/13	(16) Effective Date 17 OCT 2013
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ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	FRNCH	FRNCH	010		IF		FB				BT FL300FL250	AT 280
	FRNCH	SKARF	020		TF		FB	1.0			BT FL250FL220	AT 270
	FRNCH	TOMSN	030		TF		FB	1.0			BT FL220FL200	AT 250
	FRNCH	ALISE	040		TF		FB	1.0				
	FRNCH	DORKE	050		TF		FB	1.0			BT 1700015000	
	FRNCH	ARCHY	060		TF		FB	1.0			AT 15000	AT 250
	RW17L	ARCHY	010		IF		FB				AT 15000	AT 250
	RW17L	BABAA	020		TF		FB	1.0				
	RW17L	BEEBS	030		TF		FB	1.0			AA 12000	
	RW17L	CREEQ	040		TF		FB	1.0			AT 11000	
	RW17L	BLUKN	050		TF		FB	1.0			BT 0950009000	AB 210
	RW17L	CENIK	060		TF		FB	1.0			BT 0900008500	
	RW17L	LOWRE	070		TF		FB	1.0			AT 07800	
	RW35R	ARCHY	010		IF		FB				AT 15000	AT 250
	RW35R	BABAA	020		TF		FB	1.0				
	RW35R	DEN	030		TF		FB	1.0				
	RW35R	CELBI	040		TF		FB	1.0				
	RW35R	CRUUP	050		TF		FB	1.0				
	RW35R	CPPER	060		TF		FB	1.0				
	RW35R	HUUKK	070		TF		FB	1.0			AT 15000	AT 210
	RW35R	XSTRA	080		TF		FB	1.0			AA 14000	
	RW35R	XFROM	090		TF		FB	1.0				
	RW35R	XLENT	100		TF		FB	1.0			AA 12000	
	RW35R	XPATH	110		TF		FB	1.0				
	RW35R	XBEEE	120		TF		FB	1.0			AT 09000	
	RW35R	FIRPI	130		TF		FB	1.0			AT 09000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DEN	N394845.05	W1043938.66	N3948.751	W10439.644
	ALISE	N401500.47	W1051609.94	N4015.008	W10516.166
	ARCHY	N400027.98	W1045329.62	N4000.466	W10453.494
	BABAA	N395706.21	W1044816.53	N3957.104	W10448.276
	BEEBS	N395408.37	W1044053.97	N3954.140	W10440.900
	BLUKN	N394517.34	W1044751.13	N3945.289	W10447.852
	CELBI	N393829.55	W1043946.04	N3938.493	W10439.767
	CENIK	N394331.50	W1045115.06	N3943.525	W10451.251
	CPPER	N392536.59	W1043955.22	N3925.610	W10439.920



(11)
Arrival Name
SKARF RNAV

(12)
Number
THREE

(13)
STAR Computer Code
SKARF.SKARF3

(14)
Superseded Nr.
TWO

(15)
Dated
5/28/13

(16)
Effective Date

17 OCT 2013

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CREEQ	N394849.55	W1044055.94	N3948.826	W10440.932
CRUUP	N393205.28	W1043950.60	N3932.088	W10439.843
DORKE	N401109.77	W1051008.99	N4011.163	W10510.150
FIRPI	N392042.01	W1045025.60	N3920.700	W10450.427
FRNCH	N402641.08	W1055932.40	N4026.685	W10559.540
HUUKK	N392229.63	W1043958.81	N3922.494	W10439.980
LOWRE	N394119.79	W1045122.76	N3941.330	W10451.379
SKARF	N402346.82	W1054104.41	N4023.780	W10541.074
TOMSN	N402124.27	W1052613.05	N4021.405	W10526.218
XBEEE	N391747.21	W1045018.72	N3917.787	W10450.312
XFROM	N391319.01	W1044006.57	N3913.317	W10440.110
XLENT	N391015.80	W1044445.48	N3910.263	W10444.758
XPATH	N391221.19	W1045005.46	N3912.353	W10450.091
XSTRA	N391725.82	W1044003.21	N3917.430	W10440.054
RW17L	N393502.92	W1045105.30	N3935.049	W10451.088
RW35R	N393324.18	W1045100.74	N3933.403	W10451.012

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	05793	47
RW35R	05885	53



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