AERODROME CHART

CHANGE: Spot24, Spot51, Spot52 abolished. Shape of APRON.

RJTT / TOKYO INTL

AD CHART

CHANGE: Pushback-lane relocated.

Designation	Call Sign	Frequency (MHz)
ATIS	Tokyo INTL Airport	128.8
DLVRY	Tokyo Delivery	121.825 121.875
GND	Tokyo Ground	118.225 121.625 121.7 121.975 122.075
TWR	Tokyo Tower	118.1 118.575 118.725 124.35 118.8 126.2 236.8

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TAXIING GUIDE LINE AND PARKING AREAS

CHANGE: Pushback-lane relocated.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY : 16R/34L

DECLARED DISTANCES		
RWY 16R		RWY 34L
3000m	TAKE OFF RUN AVAILABLE	3000m
3000m	TAKE OFF DISTANCE AVAILABLE	3000m
3000m	ACCELERATE STOP DISTANCE AVAILABLE	3000m
2520m	LANDING DISTANCE AVAILABLE	3000m

LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
TREE / LEVEE			
RAILROAD / RIVER			
TRANSMISSION LINE OR OVERHEAD CABLE			
TRIANGULATION POINT			
AERONAUTICAL GROUND LIGHT			
BUILDING OR LARGE STRUCTURE			
CONTOURS(ft)			

測量法に基づく国土地理院長承認(使用) R 3JHs352, 国土数値情報(緊急輸送道路, 鉄道)

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY : 04/22

DECLARED DISTANCES		
RWY 04		RWY 22
2500m	TAKE OFF RUN AVAILABLE	2500m
2500m	TAKE OFF DISTANCE AVAILABLE	2500m
2500m	ACCELERATE STOP DISTANCE AVAILABLE	2500m
2500m	LANDING DISTANCE AVAILABLE	2500m

HORIZONTAL SCALE

FEET

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 ft

500 0 500 1000 1500 2000 2500 m

METRES

LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
TREE / LEVEE			
RAILROAD / RIVER			
TRANSMISSION LINE OR OVERHEAD CABLE			
TRIANGULATION POINT			
AERONAUTICAL GROUND LIGHT			
BUILDING OR LARGE STRUCTURE			
CONTOURS(ft)			

測量法に基づく国土地理院長承認(使用) R 3JHs352、国土数値情報(緊急輸送道路、鉄道)

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY: 04/22

DECLARED DISTANCES		
RWY 04		RWY 22
2500m	TAKE OFF RUN AVAILABLE	2500m
2500m	TAKE OFF DISTANCE AVAILABLE	2500m
2500m	ACCELERATE STOP DISTANCE AVAILABLE	2500m
2500m	LANDING DISTANCE AVAILABLE	2500m

LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
① IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
TREE / LEVEE			
RAILROAD / RIVER			
TRANSMISSION LINE OR OVERHEAD CABLE			
TRIANGULATION POINT			
AERONAUTICAL GROUND LIGHT			
BUILDING OR LARGE STRUCTURE			
CONTOURS(ft)			

HORIZONTAL SCALE

CHANGE : Update.

測量法に基づく国土地理院長承認（使用） R 3JHs 352、国土数値情報（緊急輸送道路）

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY : 16L/34R

DECLARED DISTANCES		
RWY 16L		RWY 34R
3360m	TAKE OFF RUN AVAILABLE	3360m
3360m	TAKE OFF DISTANCE AVAILABLE	3360m
3360m	ACCELERATE STOP DISTANCE AVAILABLE	3360m
2970m	LANDING DISTANCE AVAILABLE	3000m

測量法に基づく国土地理院長承認(使用) R 3JHs 352、国土数値情報(緊急輸送道路、鉄道)

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY : 16L/34R

DECLARED DISTANCES		
RWY 16L		RWY 34R
3360m	TAKE OFF RUN AVAILABLE	3360m
3360m	TAKE OFF DISTANCE AVAILABLE	3360m
3360m	ACCELERATE STOP DISTANCE AVAILABLE	3360m
2970m	LANDING DISTANCE AVAILABLE	3000m

LEGEND

- ① IDENTIFICATION NUMBER
- POLE, TOWER, SPIRE, ANTENNA, ETC
- TREE
- LEVEE
- RAILROAD
- RIVER
- TRANSMISSION LINE OR OVERHEAD CABLE
- TRIANGULATION POINT
- AERONAUTICAL GROUND LIGHT
- BUILDING OR LARGE STRUCTURE
- CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

HORIZONTAL SCALE

測量法に基づく国土地理院長承認（使用） R 3JHs 352

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022

TOKYO INTERNATIONAL AIRPORT
RWY : 05/23

DECLARED DISTANCES		
RWY 05		RWY 23
2500m	TAKE OFF RUN AVAILABLE	2500m
2500m	TAKE OFF DISTANCE AVAILABLE	2500m
2500m	ACCELERATE STOP DISTANCE AVAILABLE	2500m
-	LANDING DISTANCE AVAILABLE	2500m

LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
TREE / LEVEE			
RAILROAD / RIVER			
TRANSMISSION LINE OR OVERHEAD CABLE			
TRIANGULATION POINT			
AERONAUTICAL GROUND LIGHT			
BUILDING OR LARGE STRUCTURE			
CONTOURS(ft)			

HORIZONTAL SCALE

測量法に基づく国土地理院長承認(使用) R 3JHs 352、国土数値情報(緊急輸送道路)

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B

CHANGE : Obstruction added.

PRECISION APPROACH TERRAIN CHART

DISTANCES AND HEIGHTS IN METRES

HORIZONTAL SCALE 1:2500

VERTICAL SCALE 1:500

CONTOUR AND HEIGHTS ARE RELATED

TO ELEVATION OF DISPLACED THR OF RWY34R

LEGEND	
CONTOUR	-1
CENTER-LINE PROFILE	
DEVIATION AT LEAST ±3m FROM CENTER-LINE PROFILE	
APPROACH LIGHTING	
ANTENNA	

CHANGE: CONTOUR

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL SID

SEKIYADO THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100˚ to HME 9.0DME, turn left HDG017˚ to intercept and proceed via SYE R167 to SYE VOR/DME.
Cross SYE VOR/DME between 12000FT and FL150.

RWY16R/16L: Climb RWY HDG to intercept and proceed via HME 11.8DME counterclockwise ARC to HME R065, turn right HDG017˚ to intercept and proceed via SYE R167 to SYE VOR/DME.
Cross HME R116 at or above 6000FT, cross SYE VOR/DME between 12000FT and FL150.

RWY05 : Climb on HDG059˚ to HME 10.0DME, turn left HDG017˚ to intercept and proceed via SYE R167 to SYE VOR/DME.
Cross SYE VOR/DME between 12000FT and FL150.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.
RWY05: 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL SID

VADAR ONE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100˚ to HME 9.0DME, turn right HDG222˚ to intercept and proceed via HME R177 to VADAR.
Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207˚ to intercept and proceed via HME R177 to VADAR.
Cross VADAR at or above 9000FT.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100˚ to HME 9.0DME, turn right HDG222˚ to intercept and proceed via HME R177 to VADAR.
Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

Note RWY04/34R/34L: 5.0% climb gradient required up to 700FT.
RWY05: 5.0% climb gradient required up to 1000FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL SID

OPPAR THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right within 4NM, climb via HDG110˚ to HME 7.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.
Cross HME 7.0DME at or above 3000FT, cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to 500FT, turn left climb via HME R140 to 8.0DME, turn left HDG239˚ within HME 12.0DME to intercept and proceed via HME R194 to OPPAR.
Cross OPPAR at or above 9000FT.

RWY05: Climb RWY HDG to HME 5.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.
Cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

Note Aircraft taking off from RWY16R/16L are required to complete left turns south of HME R080.
RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL — RNAV TRANSITION

JYOGA TRANSITION UTIBO TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	–
	DME GAP	–
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

JYOGA TRANSITION

From OPPAR at or above 9000FT, to JYOGA at or above FL150.

UTIBO TRANSITION

From OPPAR at or above 9000FT, to UTIBO at or above FL150.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV TRANSITION

JYOGA TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OPPAR	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	JYOGA	—	224 (217.1)	-7.4	16.9	—	+FL150	—	—	RNAV1

UTIBO TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OPPAR	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	UTIBO	—	170 (162.7)	-7.4	26.7	—	+FL150	—	—	RNAV1

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STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL SID

ISOGO TWO DEPARTURE (FOR PROP ONLY)

RWY04/34R/34L: Climb RWY HDG to 700FT or above, turn left within 4NM, climb via HME R177 to VADAR.

RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207˚ to intercept and proceed via HME R177 to VADAR.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100˚ to HME 9.0DME, turn right HDG222˚ to intercept and proceed via HME R177 to VADAR.
Cross HME R120 at or above 5000FT.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.
RWY05: 5.0% climb gradient required up to 1000FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL TRANSITION

OSHIMA TRANSITION

From over VADAR, via HME R177 to intercept and proceed via XAC R058 to XAC VORTAC.

CHIKURA TRANSITION

From over VADAR, via HME R177 to UTIBO.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

VAMOS THREE DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R:HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L:HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R:HME 1.0NM FM DER - 2.5NM to TT502 RWY34L:HME 0.5NM FM DER - 2.5NM to TT502 RWY04:HME 1.7NM FM DER - 2.5NM to TT502 RWY05:HME DER - 2.7NM to TT502
DME GAP	RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY22:DER - 1.4NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAMOS THREE DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to VAMOS at or above 9000FT.

RWY16L : Climb on HDG 158˚ at or above 500FT, direct to T6L21, to VAMOS at or above 9000FT.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY04: Climb on HDG 043˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY05: Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY22: Climb on HDG 223˚ at or above 600FT, turn left direct to HOBBS, to BASSA, to VAMOS at or above 9000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.
RWY22 : 5.0% climb gradient required up to 600FT.

CHANGE : PROC renamed. HDG after DEP FM RWY04,22.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAMOS THREE DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	VAMOS	–	207 (199.5)	-7.6	14.5	–	+9000	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L21	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	VAMOS	–	208 (200.7)	-7.6	15.4	–	+9000	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	+9000	–	–	RNAV1

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	+9000	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R:NR003(Course). RWY04:NR001,003(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	+9000	–	–	RNAV1

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	223 (214.9)	-7.6	–	–	+600	–	–	RNAV1
002	DF	HOBBS	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	BASSA	–	187 (179.9)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	VAMOS	–	187 (179.9)	-7.6	8.9	–	+9000	–	–	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course). RWY22:NR001(Course).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	*352108.8N / 1394542.2E*	T6R11	*352552.5N / 1395137.2E*
HOBBS	*352653.9N / 1394541.3E*	TT501	*353328.7N / 1395029.9E*
LOCUP	*352718.8N / 1395608.5E*	TT502	*353224.4N / 1395720.7E*
T6L21	*352639.1N / 1395222.0E*	VAMOS	*351215.5N / 1394543.6E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV TRANSITION

TATEYAMA TRANSITION / DRAKY TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.		Critical DME	–
DME GAP	–		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV TRANSITION

TATEYAMA TRANSITION

From VAMOS at or above 9000FT, to UTIBO.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VAMOS	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	UTIBO	–	165 (157.0)	-7.5	16.8	–	–	–	–	RNAV1

DRAKY TRANSITION

From VAMOS at or above 9000FT, to DRAKY, to XAC.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VAMOS	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	DRAKY	–	218 (210.2)	-7.5	22.2	–	–	–	–	RNAV1
003	TF	XAC	–	218 (210.1)	-7.5	11.9	–	–	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DRAKY	*345301.7N / 1393205.5E*	VAMOS	*351215.5N / 1394543.6E*
UTIBO	*345647.0N / 1395343.9E*	XAC	*344244.1N / 1392450.5E*

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

LAXAS THREE DEPARTURE	RNAV1

Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R: HME 1.2NM FM DER - 1.9NM to T6R11 HYD T6R11 - TAURA RWY16L: HME 1.0NM FM DER - 2.4NM to T6L21 HYD 9.0NM to TAURA - TAURA RWY34R: HME 1.0NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY34L: HME 0.5NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY04: HME 1.7NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY05: HME DER - 2.7NM to TT502 HYD 8.6NM to TAURA - TAURA
DME GAP	RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY22:DER - 1.4NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP. Course FM BASSA to UMUKI.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

LAXAS THREE DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, direct to T6L21, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY04 : Climb on HDG 043˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY22 : Climb on HDG 223˚ at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to IMOLA at or above FL150, to LAXAS at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.
RWY22 : 5.0% climb gradient required up to 600FT.

CHANGE : PROC renamed. HDG after DEP FM RWY04,22.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

LAXAS THREE DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	TAURA	–	226 (218.1)	-7.6	9.0	–	+9000	–	–	RNAV1
004	TF	IMOLA	–	228 (220.5)	-7.6	18.8	–	+FL150	–	–	RNAV1
005	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L21	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	TAURA	–	226 (218.1)	-7.6	10.0	–	+9000	–	–	RNAV1
004	TF	IMOLA	–	228 (220.5)	-7.6	18.8	–	+FL150	–	–	RNAV1
005	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	TAURA	–	235 (227.3)	-7.6	12.6	–	+9000	–	–	RNAV1
005	TF	IMOLA	–	228 (220.5)	-7.6	18.8	–	+FL150	–	–	RNAV1
006	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R:NR003(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	TAURA	–	235 (227.3)	-7.6	12.6	–	+9000	–	–	RNAV1
005	TF	IMOLA	–	228 (220.5)	-7.6	18.8	–	+FL150	–	–	RNAV1
006	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TAURA	–	235 (227.3)	-7.6	12.6	–	+9000	–	–	RNAV1
006	TF	IMOLA	–	228 (220.5)	-7.6	18.8	–	+FL150	–	–	RNAV1
007	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003(Course). RWY05:NR004(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	223 (214.9)	-7.6	–	–	+600	–	–	RNAV1
002	DF	HOBBS	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	BASSA	–	187 (179.9)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	UMUKI	–	172 (163.9)	-7.6	9.2	–	–	–	–	RNAV1
005	TF	PIPER	–	235 (227.4)	-7.6	3.5	–	+9000	–	–	RNAV1
006	TF	SATOL	–	235 (227.4)	-7.6	5.5	–	–	–	–	RNAV1
007	TF	IMOLA	–	266 (258.7)	-7.6	9.1	–	+FL150	–	–	RNAV1
008	TF	LAXAS	–	266 (258.6)	-7.6	12.8	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	*352108.8N / 1394542.2E*	T6L21	*352639.1N / 1395222.0E*
HOBBS	*352653.9N / 1394541.3E*	T6R11	*352552.5N / 1395137.2E*
IMOLA	*350426.0N / 1392951.0E*	TAURA	*351846.1N / 1394447.3E*
LAXAS	*350153.1N / 1391432.8E*	TT501	*353328.7N / 1395029.9E*
LOCUP	*352718.8N / 1395608.5E*	TT502	*353224.4N / 1395720.7E*
PIPER	*350958.3N / 1394542.0E*	UMUKI	*351219.1N / 1394849.2E*
SATOL	*350613.3N / 1394043.4E*		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

NINOX THREE DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 3.8NM to T6R12 HYD T6R12 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY16L : HME 1.0NM FM DER - 4.7NM to T6L22 HYD 5.6NM to TT631 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY05 : HME DER - 2.7NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO
DME GAP	RWY16R：DER - 1.2NM FM DER RWY16L：DER - 1.0NM FM DER RWY34R：DER - 1.0NM FM DER RWY34L：DER - 0.5NM FM DER RWY04：DER - 1.7NM FM DER RWY22：DER - 1.4NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP. Course FM TT631 to BAYGE. Course FM BASSA to UMUKI. Course FM SEIKO to NINOX.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

NINOX THREE DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R12, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, direct to T6L22, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY04 : Climb on HDG 043˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY22 : Climb on HDG 223˚ at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to NINOX at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.
RWY22 : 5.0% climb gradient required up to 600FT.

CHANGE : PROC renamed. HDG after DEP FM RWY04,22.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : PROC renamed. Magnetic Variation. RWY16R:NR004,006(Course). RWY16L:NR004,006(Course). RWY34L/RWY34R:NR003,006(Course).

NINOX THREE DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R12	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	TT631	–	247 (239.8)	-7.6	5.6	–	–	–	–	RNAV1
004	TF	BAYGE	–	335 (327.0)	-7.6	5.0	–	+9000	–	–	RNAV1
005	TF	SEIKO	–	295 (287.8)	-7.6	11.4	–	+13000	–	–	RNAV1
006	TF	NINOX	–	281 (272.9)	-7.6	16.5	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L22	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	TT631	–	247 (239.8)	-7.6	6.6	–	–	–	–	RNAV1
004	TF	BAYGE	–	335 (327.0)	-7.6	5.0	–	+9000	–	–	RNAV1
005	TF	SEIKO	–	295 (287.8)	-7.6	11.4	–	+13000	–	–	RNAV1
006	TF	NINOX	–	281 (272.9)	-7.6	16.5	–	+FL170	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	BAYGE	–	268 (260.6)	-7.6	10.5	–	+9000	–	–	RNAV1
005	TF	SEIKO	–	295 (287.8)	-7.6	11.4	–	+13000	–	–	RNAV1
006	TF	NINOX	–	281 (272.9)	-7.6	16.5	–	+FL170	–	–	RNAV1

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	BAYGE	–	268 (260.6)	-7.6	10.5	–	+9000	–	–	RNAV1
005	TF	SEIKO	–	295 (287.8)	-7.6	11.4	–	+13000	–	–	RNAV1
006	TF	NINOX	–	281 (272.9)	-7.6	16.5	–	+FL170	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	BAYGE	–	268 (260.6)	-7.6	10.5	–	+9000	–	–	RNAV1
006	TF	SEIKO	–	295 (287.8)	-7.6	11.4	–	+13000	–	–	RNAV1
007	TF	NINOX	–	281 (272.9)	-7.6	16.5	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003,006(Course). RWY05:NR004,007(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	223 (214.9)	-7.6	–	–	+600	–	–	RNAV1
002	DF	HOBBS	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	BASSA	–	187 (179.9)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	UMUKI	–	172 (163.9)	-7.6	9.2	–	–	–	–	RNAV1
005	TF	PIPER	–	235 (227.4)	-7.6	3.5	–	+9000	–	–	RNAV1
006	TF	SATOL	–	235 (227.4)	-7.6	5.5	–	–	–	–	RNAV1
007	TF	CURVA	–	300 (292.2)	-7.6	8.2	–	+FL150	–	–	RNAV1
008	TF	NINOX	–	327 (319.6)	-7.6	27.1	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	*352108.8N / 1394542.2E*	SEIKO	*352904.5N / 1393005.0E*
BAYGE	*352535.4N / 1394327.4E*	T6L22	*352441.2N / 1395345.4E*
CURVA	*350919.0N / 1393124.4E*	T6R12	*352413.6N / 1395247.1E*
HOBBS	*352653.9N / 1394541.3E*	TT501	*353328.7N / 1395029.9E*
LOCUP	*352718.8N / 1395608.5E*	TT502	*353224.4N / 1395720.7E*
NINOX	*352953.4N / 1390953.1E*	TT631	*352123.4N / 1394648.6E*
PIPER	*350958.3N / 1394542.0E*	UMUKI	*351219.1N / 1394849.2E*
SATOL	*350613.3N / 1394043.4E*		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

RITLA TWO A DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

RITLA TWO A DEPARTURE RWY16R/16L

CHANGE : Critical DME(RWY16R, RWY05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

RITLA TWO A DEPARTURE RWY 34L/34R/04/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. HDG after DEP FM RWY04. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : PROC renamed. RTE after LAYER. TIARA established. HDG after DEP FM RWY04.

RITLA TWO A DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY04 : Climb on HDG 043˚ at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RITLA TWO A DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
007	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
006	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
007	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
008	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY04:NR001(Course). RWY05:NR004(Course).

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
006	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
007	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
008	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
HATBA	*352623.4N / 1394315.9E*	T6L23	*352627.6N / 1395539.1E*
INTEL	*354553.0N / 1394340.2E*	T6R13	*352800.8N / 1395006.4E*
KAIJI	*354409.6N / 1395806.6E*	TIARA	*353934.0N / 1391954.2E*
KAMAT	*353353.6N / 1394148.9E*	TORAM	*353636.8N / 1395011.0E*
LAYER	*353925.4N / 1392829.5E*	TT501	*353328.7N / 1395029.9E*
LOCUP	*352718.8N / 1395608.5E*	TT502	*353224.4N / 1395720.7E*
PLUTO	*353632.1N / 1395736.8E*	TT503	*352828.0N / 1394840.4E*
RITLA	*353944.8N / 1390813.1E*	WELDA	*352941.4N / 1395956.7E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

RITLA TWO B DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

RITLA TWO B DEPARTURE RWY16R/16L

CHANGE : Critical DME(RWY16R, RWY05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

RITLA TWO B DEPARTURE RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RITLA TWO B DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. RTE after LAYER. TIARA established.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RITLA TWO B DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
007	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
007	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
008	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05:NR004(Course).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	PLUTO	*353632.1N / 1395736.8E*
EDOJO	*354214.0N / 1395129.9E*	RITLA	*353944.8N / 1390813.1E*
HATBA	*352623.4N / 1394315.9E*	T6L23	*352627.6N / 1395539.1E*
INTEL	*354553.0N / 1394340.2E*	T6R13	*352800.8N / 1395006.4E*
KAIJI	*354409.6N / 1395806.6E*	TIARA	*353934.0N / 1391954.2E*
KAMAT	*353353.6N / 1394148.9E*	TT501	*353328.7N / 1395029.9E*
LAYER	*353925.4N / 1392829.5E*	TT502	*353224.4N / 1395720.7E*
LOCUP	*352718.8N / 1395608.5E*	TT503	*352828.0N / 1394840.4E*
OHEDO	*354523.4N / 1394838.6E*	WELDA	*352941.4N / 1395956.7E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

RITLA TWO C DEPARTURE	RNAV1

Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT RWY22 : DER - 1.4NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

RITLA TWO C DEPARTURE RWY16R/16L/22

CHANGE : Critical DME(RWY05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

RITLA TWO C DEPARTURE RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : PROC renamed. RTE after LAYER. TIARA established. HDG after DEP FM RWY22.

RITLA TWO C DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA at or above FL170.

RWY22 : Climb on HDG 223˚ at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to RITLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.
RWY22 : 5.0% climb gradient required up to 600FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RITLA TWO C DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
007	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
008	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	RITLA	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	223 (214.9)	-7.6	–	–	+600	–	–	RNAV1
002	DF	HOBBS	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	BASSA	–	187 (179.9)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	UMUKI	–	172 (163.9)	-7.6	9.2	–	–	–	–	RNAV1
005	TF	PIPER	–	235 (227.4)	-7.6	3.5	–	+9000	–	–	RNAV1
006	TF	SATOL	–	235 (227.4)	-7.6	5.5	–	–	–	–	RNAV1
007	TF	CURVA	–	300 (292.2)	-7.6	8.2	–	+FL150	–	–	RNAV1
008	TF	RITLA	–	336 (328.3)	-7.6	35.8	–	+FL170	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	PLUTO	*353632.1N / 1395736.8E*
BASSA	*352108.8N / 1394542.2E*	RITLA	*353944.8N / 1390813.1E*
CURVA	*350919.0N / 1393124.4E*	SATOL	*350613.3N / 1394043.4E*
EDOJO	*354214.0N / 1395129.9E*	T6L23	*352627.6N / 1395539.1E*
HOBBS	*352653.9N / 1394541.3E*	T6R11	*352552.5N / 1395137.2E*
INTEL	*354553.0N / 1394340.2E*	TIARA	*353934.0N / 1391954.2E*
KAIJI	*354409.6N / 1395806.6E*	TT501	*353328.7N / 1395029.9E*
KAMAT	*353353.6N / 1394148.9E*	TT502	*353224.4N / 1395720.7E*
LAYER	*353925.4N / 1392829.5E*	TT503	*352828.0N / 1394840.4E*
LOCUP	*352718.8N / 1395608.5E*	UMUKI	*351219.1N / 1394849.2E*
OHEDO	*354523.4N / 1394838.6E*	WELDA	*352941.4N / 1395956.7E*
PIPER	*350958.3N / 1394542.0E*		

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05:NR004(Course). RWY22:NR001,004(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

BEKLA TWO A DEPARTURE	RNAV1

Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

BEKLA TWO A DEPARTURE RWY34L/34R/04/05

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP. HDG after DEP FM RWY04.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO A DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY04 : Climb on HDG 043˚ at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. RTE after KAMAT(RWY16R,05). HDG after DEP FM RWY04.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO A DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	BEKLA	–	313 (305.4)	-7.6	18.3	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R:RTE after KAMAT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : Magnetic Variation. RWY04:NR001(Course). RWY05:NR004(Course),RTE after KAMAT. Waypoint Coordinates(LAYER added).

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	313 (305.4)	-7.6	18.3	–	+FL170	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BEKLA	*354958.7N / 1391009.5E*	RAGOS	*354942.2N / 1392821.2E*
HATBA	*352623.4N / 1394315.9E*	T6L23	*352627.6N / 1395539.1E*
INTEL	*354553.0N / 1394340.2E*	T6R13	*352800.8N / 1395006.4E*
KAIJI	*354409.6N / 1395806.6E*	TORAM	*353636.8N / 1395011.0E*
KAMAT	*353353.6N / 1394148.9E*	TT501	*353328.7N / 1395029.9E*
LAYER	*353925.4N / 1392829.5E*	TT502	*353224.4N / 1395720.7E*
LOCUP	*352718.8N / 1395608.5E*	TT503	*352828.0N / 1394840.4E*
PLUTO	*353632.1N / 1395736.8E*	WELDA	*352941.4N / 1395956.7E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

BEKLA TWO B DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

BEKLA TWO B DEPARTURE RWY34R/05

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO B DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. RTE after KAMAT(RWY16R,05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO B DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	BEKLA	–	313 (305.4)	-7.6	18.3	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R:RTE after KAMAT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	313 (305.4)	-7.6	18.3	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course),RTE after KAMAT. Waypoint Coordinates(LAYER added).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	OHEDO	*354523.4N / 1394838.6E*
BEKLA	*354958.7N / 1391009.5E*	PLUTO	*353632.1N / 1395736.8E*
EDOJO	*354214.0N / 1395129.9E*	RAGOS	*354942.2N / 1392821.2E*
HATBA	*352623.4N / 1394315.9E*	T6L23	*352627.6N / 1395539.1E*
INTEL	*354553.0N / 1394340.2E*	T6R13	*352800.8N / 1395006.4E*
KAIJI	*354409.6N / 1395806.6E*	TT501	*353328.7N / 1395029.9E*
KAMAT	*353353.6N / 1394148.9E*	TT502	*353224.4N / 1395720.7E*
LAYER	*353925.4N / 1392829.5E*	TT503	*352828.0N / 1394840.4E*
LOCUP	*352718.8N / 1395608.5E*	WELDA	*352941.4N / 1395956.7E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO C DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8˚W(2020)

CHANGE : PROC renamed. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

VAR8˚W(2020)

BEKLA TWO C DEPARTURE RWY34R/05

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO C DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. RTE after KAMAT(RWY05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

BEKLA TWO C DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	288 (280.8)	-7.6	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.6	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	313 (305.4)	-7.6	18.3	–	+FL170	–	–	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course),RTE after KAMAT. Waypoint Coordinates(LAYER added).

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	PLUTO	*353632.1N / 1395736.8E*
BEKLA	*354958.7N / 1391009.5E*	RAGOS	*354942.2N / 1392821.2E*
EDOJO	*354214.0N / 1395129.9E*	T6L23	*352627.6N / 1395539.1E*
INTEL	*354553.0N / 1394340.2E*	T6R11	*352552.5N / 1395137.2E*
KAIJI	*354409.6N / 1395806.6E*	TT501	*353328.7N / 1395029.9E*
KAMAT	*353353.6N / 1394148.9E*	TT502	*353224.4N / 1395720.7E*
LAYER	*353925.4N / 1392829.5E*	TT503	*352828.0N / 1394840.4E*
LOCUP	*352718.8N / 1395608.5E*	WELDA	*352941.4N / 1395956.7E*
OHEDO	*354523.4N / 1394838.6E*		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

ROVER TWO A DEPARTURE	RNAV1

Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

ROVER TWO A DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY04 : Climb on HDG 043˚ at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 :Climb on HDG 050˚ at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. HDG after DEP FM RWY04.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

ROVER TWO A DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
006	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
006	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	PLUTO	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
004	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
005	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
KAIJI	*354409.6N / 1395806.6E*	T6L23	*352627.6N / 1395539.1E*
PLUTO	*353632.1N / 1395736.8E*	T6R11	*352552.5N / 1395137.2E*
ROVER	*355918.3N / 1395059.3E*	TORAM	*353636.8N / 1395011.0E*
SPOON	*355428.3N / 1395316.0E*	WELDA	*352941.4N / 1395956.7E*

CHANGE : Magnetic Variation. RWY04:NR001(Course).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

ROVER TWO B DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : PROC renamed.

RJTT/TOKYO INTL RNAV SID

ROVER TWO B DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 : Climb on HDG 050˚ at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

ROVER TWO B DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	SPOON	–	030 (022.4)	-7.6	9.8	–	-FL150	–	–	RNAV1
006	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	PLUTO	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
004	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
005	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	ROVER	*355918.3N / 1395059.3E*
EDOJO	*354214.0N / 1395129.9E*	SPOON	*355428.3N / 1395316.0E*
KAIJI	*354409.6N / 1395806.6E*	T6L23	*352627.6N / 1395539.1E*
OHEDO	*354523.4N / 1394838.6E*	T6R11	*352552.5N / 1395137.2E*
PLUTO	*353632.1N / 1395736.8E*	WELDA	*352941.4N / 1395956.7E*

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

ROVER TWO C DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : PROC renamed.

RJTT/TOKYO INTL RNAV SID

ROVER TWO C DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158˚ at or above 500FT, turn left direct to T6L31, to DAMBO, to T6L32, to LESMO at or above 8000FT, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338˚ at or above 700FT, turn right direct to ARAKA, to EDOJO, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 :Climb on HDG 050˚ at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

ROVER TWO C DEPARTURE

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L31	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	DAMBO	–	055 (047.5)	-7.6	8.7	–	–	–	–	RNAV1
004	TF	T6L32	–	317 (309.4)	-7.6	6.2	–	–	–	–	RNAV1
005	TF	LESMO	–	002 (354.1)	-7.6	3.0	–	+8000	–	–	RNAV1
006	TF	KAIJI	–	002 (354.1)	-7.6	3.0	–	–	–	–	RNAV1
007	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
008	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	SPOON	–	030 (022.4)	-7.6	9.8	–	-FL150	–	–	RNAV1
006	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	PLUTO	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
004	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
005	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	*353848.8N / 1395041.9E*	ROVER	*355918.3N / 1395059.3E*
DAMBO	*353416.5N / 1400443.4E*	SPOON	*355428.3N / 1395316.0E*
EDOJO	*354214.0N / 1395129.9E*	T6L31	*352822.8N / 1395648.0E*
KAIJI	*354409.6N / 1395806.6E*	T6L32	*353810.9N / 1395852.2E*
LESMO	*354110.3N / 1395829.4E*	T6R11	*352552.5N / 1395137.2E*
OHEDO	*354523.4N / 1394838.6E*	WELDA	*352941.4N / 1395956.7E*
PLUTO	*353632.1N / 1395736.8E*		

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV TRANSITION

AKAGI TRANSITION / BRUCE TRANSITION/ INUBO TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.		Critical DME	–
DME GAP	–		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : HOKUSO VOR/DME(HKE) abolished.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV TRANSITION

AKAGI TRANSITION

From ROVER, to CLARK, to AKAGI.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CLARK	–	350 (342.7)	-7.5	8.1	–	–	–	–	RNAV1
003	TF	AKAGI	–	351 (343.4)	-7.5	17.2	–	–	–	–	RNAV1

BRUCE TRANSITION

From ROVER, to BRUCE at or above FL150, to AGRIS.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	BRUCE	–	028 (020.7)	-7.5	13.6	–	+FL150	–	–	RNAV1
003	TF	AGRIS	–	006 (358.7)	-7.5	13.3	–	–	–	–	RNAV1

INUBO TRANSITION

From ROVER, to BRUCE at or above FL150, to LEWIS at FL170, to SILVA at FL170, to INUBO at or above FL250.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ROVER	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	BRUCE	–	028 (020.7)	-7.5	13.6	–	+FL150	–	–	RNAV1
003	TF	LEWIS	–	086 (078.6)	-7.5	9.6	–	FL170	–	–	RNAV1
004	TF	SILVA	–	086 (078.8)	-7.5	7.3	–	FL170	–	–	RNAV1
005	TF	INUBO	–	149 (141.9)	-7.5	40.2	–	+FL250	–	–	RNAV1

CHANGE : ALT Restriction on BRUCE

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AGRIS	*362514.7N / 1395633.1E*	INUBO	*354335.3N / 1404757.9E*
AKAGI	*362328.3N / 1394156.3E*	LEWIS	*361353.2N / 1400834.7E*
BRUCE	*361200.4N / 1395655.9E*	ROVER	*355918.3N / 1395059.3E*
CLARK	*360702.0N / 1394800.5E*	SILVA	*361518.0N / 1401726.0E*

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL — RNAV SID

RUTAS TWO DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		Critical DME	RWY16R：HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L：HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R：HME 1.0NM FM DER - 2.5NM to TT502 RWY34L：HME 0.5NM FM DER - 2.5NM to TT502 RWY04：HME 1.7NM FM DER - 2.5NM to TT502 RWY05：HME DER - 2.7NM to TT502
DME GAP	RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER		
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : PROC renamed. Magnetic Variation. HDG after DEP FM RWY04.

RUTAS TWO DEPARTURE

RWY16R : Climb on HDG 158˚ at or above 500FT, direct to T6R11, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY16L : Climb on HDG 158˚ at or above 500FT, direct to T6L21, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY34L/34R : Climb on HDG 338˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY04: Climb on HDG 043˚ at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY05: Climb on HDG 050˚ at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.
RWY05 : 5.0% climb gradient required up to 500FT.

RWY16R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	VAMOS	–	207 (199.5)	-7.6	14.5	–	–	–	–	RNAV1
004	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
005	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

RWY16L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	158 (150.0)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L21	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	VAMOS	–	208 (200.7)	-7.6	15.4	–	–	–	–	RNAV1
004	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
005	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL RNAV SID

CHANGE : Magnetic Variation. RWY34L/RWY34R:NR003(Course). RWY04:NR001,003(Course). RWY05:NR004(Course).

RWY34L/RWY34R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	338 (330.0)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
005	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
006	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	043 (034.9)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
005	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
006	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

RWY05

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	050 (042.4)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
006	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
007	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
LOCUP	*352718.8N / 1395608.5E*	TT501	*353328.7N / 1395029.9E*
RUTAS	*344349.3N / 1404034.2E*	TT502	*353224.4N / 1395720.7E*
T6L21	*352639.1N / 1395222.0E*	UTIBO	*345647.0N / 1395343.9E*
T6R11	*352552.5N / 1395137.2E*	VAMOS	*351215.5N / 1394543.6E*

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STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL STAR

SINGO ARRIVAL

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to SINGO.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

DOYLE ARRIVAL

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to intercept and proceed via ITL LOC course to DOYLE.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

ADDUM ARRIVAL

From over ADDUM, via HME R157 to HME 25.0DME, turn right, via IHA LOC course to ARLON.

Cross ADDUM at 10000FT.

BONUS ARRIVAL

From over ADDUM, via HME R157 to HME 22.2DME, via HME 22.2DME counterclockwise ARC to intercept and proceed via IKL LOC course to BONUS.

Cross ADDUM at 10000FT.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL / OSHIMA 1K ARRIVAL
OSHIMA 2C ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to ARLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	13000	230	–	RNAV1
003	TF	TT450	–	069 (061.0)	-7.5	5.0	–	–	–	–	RNAV1
004	TF	TT451	–	114 (106.9)	-7.5	9.0	–	–	–	–	RNAV1
005	TF	TT452	–	090 (082.2)	-7.5	7.0	–	–	–	–	RNAV1
006	TF	TT453	–	068 (060.7)	-7.5	7.0	–	–	–	–	RNAV1
007	TF	WANDA	–	044 (036.0)	-7.5	9.0	–	13000	230	–	RNAV1
008	TF	WEDGE	–	300 (292.4)	-7.5	18.7	–	8000	–	–	RNAV1
009	TF	ARLON	–	009 (001.6)	-7.5	6.4	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	13000	230	–	RNAV1
003	TF	TT450	–	069 (061.0)	-7.5	5.0	–	–	–	–	RNAV1
004	TF	TT451	–	114 (106.9)	-7.5	9.0	–	–	–	–	RNAV1
005	TF	TT452	–	090 (082.2)	-7.5	7.0	–	–	–	–	RNAV1
006	TF	TT453	–	068 (060.7)	-7.5	7.0	–	–	–	–	RNAV1
007	TF	WANDA	–	044 (036.0)	-7.5	9.0	–	13000	230	–	RNAV1
008	TF	WEDGE	–	300 (292.4)	-7.5	18.7	–	8000	–	–	RNAV1
009	TF	UMUKI	–	300 (292.2)	-7.5	8.8	–	+6000	–	–	RNAV1
010	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CLONE	–	095 (087.8)	-7.5	36.3	–	–	–	–	RNAV1
003	TF	TT460	–	068 (060.7)	-7.5	10.1	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANZAC	*345028.8N / 1394146.7E*	TT453	*345438.5N / 1401325.9E*
ARLON	*351525.3N / 1395859.8E*	TT460	*344852.6N / 1401936.8E*
CIVIC	*350840.6N / 1402552.1E*	TT461	*350030.2N / 1402957.9E*
CLONE	*344357.8N / 1400856.0E*	TT462	*351433.3N / 1402254.8E*
CREAM	*351743.4N / 1400612.4E*	TT463	*352125.4N / 1402237.1E*
EPSON	*353036.2N / 1401305.9E*	TT464	*352617.6N / 1401938.6E*
KAIHO	*351857.8N / 1394642.4E*	UMUKI	*351219.1N / 1394849.2E*
TT450	*345254.0N / 1394706.0E*	WANDA	*350155.3N / 1401954.1E*
TT451	*345016.8N / 1395734.3E*	WEDGE	*350900.4N / 1395846.5E*
TT452	*345113.2N / 1400600.1E*	XAC	*344244.1N / 1392450.5E*

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL / AKSEL 1K ARRIVAL
AKSEL 2C ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to ARLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	TT454	–	039 (031.2)	-7.5	9.5	–	–	–	–	RNAV1
003	TF	TT455	–	090 (082.2)	-7.5	7.6	–	–	–	–	RNAV1
004	TF	TT456	–	068 (060.7)	-7.5	7.6	–	–	–	–	RNAV1
005	TF	WALLY	–	044 (036.0)	-7.5	9.7	–	12000	230	–	RNAV1
006	TF	WEDGE	–	300 (292.4)	-7.5	20.2	–	8000	–	–	RNAV1
007	TF	ARLON	–	009 (001.6)	-7.5	6.4	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1K ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	TT454	–	039 (031.2)	-7.5	9.5	–	–	–	–	RNAV1
003	TF	TT455	–	090 (082.2)	-7.5	7.6	–	–	–	–	RNAV1
004	TF	TT456	–	068 (060.7)	-7.5	7.6	–	–	–	–	RNAV1
005	TF	WALLY	–	044 (036.0)	-7.5	9.7	–	12000	230	–	RNAV1
006	TF	WEDGE	–	300 (292.4)	-7.5	20.2	–	8000	–	–	RNAV1
007	TF	UMUKI	–	300 (292.2)	-7.5	8.8	–	+6000	–	–	RNAV1
008	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2C ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CLONE	–	085 (077.0)	-7.5	14.8	–	–	–	–	RNAV1
003	TF	TT460	–	068 (060.7)	-7.5	10.1	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	TT456	*345329.3N / 1401440.2E*
ARLON	*351525.3N / 1395859.8E*	TT460	*344852.6N / 1401936.8E*
CIVIC	*350840.6N / 1402552.1E*	TT461	*350030.2N / 1402957.9E*
CLONE	*344357.8N / 1400856.0E*	TT462	*351433.3N / 1402254.8E*
CREAM	*351743.4N / 1400612.4E*	TT463	*352125.4N / 1402237.1E*
EPSON	*353036.2N / 1401305.9E*	TT464	*352617.6N / 1401938.6E*
KAIHO	*351857.8N / 1394642.4E*	UMUKI	*351219.1N / 1394849.2E*
TT454	*344844.8N / 1395725.3E*	WALLY	*350120.1N / 1402138.6E*
TT455	*344946.2N / 1400635.3E*	WEDGE	*350900.4N / 1395846.5E*

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL / AROSA 1K ARRIVAL
AROSA 2C ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to ARLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	TT457	–	325 (317.5)	-7.5	7.2	–	–	–	–	RNAV1
004	TF	TT458	–	286 (278.5)	-7.5	7.4	–	–	–	–	RNAV1
005	TF	TT459	–	270 (262.3)	-7.5	8.2	–	–	–	–	RNAV1
006	TF	WALTZ	–	295 (287.0)	-7.5	10.4	–	11000	230	–	RNAV1
007	TF	WEDGE	–	038 (030.6)	-7.5	21.8	–	8000	–	–	RNAV1
008	TF	ARLON	–	009 (001.6)	-7.5	6.4	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1K ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	TT457	–	325 (317.5)	-7.5	7.2	–	–	–	–	RNAV1
004	TF	TT458	–	286 (278.5)	-7.5	7.4	–	–	–	–	RNAV1
005	TF	TT459	–	270 (262.3)	-7.5	8.2	–	–	–	–	RNAV1
006	TF	WALTZ	–	295 (287.0)	-7.5	10.4	–	11000	230	–	RNAV1
007	TF	WEDGE	–	038 (030.6)	-7.5	21.8	–	8000	–	–	RNAV1
008	TF	UMUKI	–	300 (292.2)	-7.5	8.8	–	+6000	–	–	RNAV1
009	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

AROSA 2C ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	TT460	–	352 (344.5)	-7.5	7.2	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	*351525.3N / 1395859.8E*	TT459	*344712.8N / 1395716.3E*
AROSA	*344201.7N / 1404157.3E*	TT460	*344852.6N / 1401936.8E*
AVEEY	*344155.9N / 1402158.0E*	TT461	*350030.2N / 1402957.9E*
CIVIC	*350840.6N / 1402552.1E*	TT462	*351433.3N / 1402254.8E*
CREAM	*351743.4N / 1400612.4E*	TT463	*352125.4N / 1402237.1E*
EPSON	*353036.2N / 1401305.9E*	TT464	*352617.6N / 1401938.6E*
KAIHO	*351857.8N / 1394642.4E*	UMUKI	*351219.1N / 1394849.2E*
TT457	*344714.3N / 1401602.7E*	WALTZ	*345014.4N / 1394510.7E*
TT458	*344819.1N / 1400710.5E*	WEDGE	*350900.4N / 1395846.5E*

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL / GODIN 2K ARRIVAL
GODIN 1C ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : COORD of MORIYA DME(SND).

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to ARLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CHIPS	–	197 (189.1)	-7.5	11.8	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	TT468	–	256 (248.1)	-7.5	6.7	–	–	–	–	RNAV1
011	TF	TT469	–	278 (270.2)	-7.5	6.9	–	–	–	–	RNAV1
012	TF	ARLON	–	308 (300.2)	-7.5	6.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2K ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CHIPS	–	197 (189.1)	-7.5	11.8	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	TT468	–	256 (248.1)	-7.5	6.7	–	–	–	–	RNAV1
011	TF	TT469	–	278 (270.2)	-7.5	6.9	–	–	–	–	RNAV1
012	TF	UMUKI	–	278 (270.2)	-7.5	13.7	–	+6000	–	–	RNAV1
013	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

GODIN 1C ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CHIPS	–	197 (189.1)	-7.5	11.8	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	CREAM	–	291 (283.1)	-7.5	13.0	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	*351525.3N / 1395859.8E*	KAIHO	*351857.8N / 1394642.4E*
CHIPS	*361247.7N / 1401436.9E*	TT465	*352939.2N / 1401235.4E*
COACH	*353736.0N / 1401231.5E*	TT466	*352539.0N / 1401840.1E*
COLOR	*360116.3N / 1401219.8E*	TT467	*352110.2N / 1402124.4E*
COPSE	*354658.8N / 1401205.4E*	TT468	*351216.4N / 1401402.6E*
CREAM	*351743.4N / 1400612.4E*	TT469	*351217.9N / 1400534.7E*
EDDIE	*351447.4N / 1402140.9E*	UMUKI	*351219.1N / 1394849.2E*
GODIN	*362425.3N / 1401655.9E*		

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL / POLIX 2K ARRIVAL
POLIX 1C ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : HOKUSO VOR/DME(HKE) abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to ARLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	CHIPS	–	279 (271.1)	-7.5	9.5	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	TT468	–	256 (248.1)	-7.5	6.7	–	–	–	–	RNAV1
011	TF	TT469	–	278 (270.2)	-7.5	6.9	–	–	–	–	RNAV1
012	TF	ARLON	–	308 (300.2)	-7.5	6.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2K ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to TT469, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	CHIPS	–	279 (271.1)	-7.5	9.5	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	TT468	–	256 (248.1)	-7.5	6.7	–	–	–	–	RNAV1
011	TF	TT469	–	278 (270.2)	-7.5	6.9	–	–	–	–	RNAV1
012	TF	UMUKI	–	278 (270.2)	-7.5	13.7	–	+6000	–	–	RNAV1
013	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

POLIX 1C ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	CHIPS	–	279 (271.1)	-7.5	9.5	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	CREAM	–	291 (283.1)	-7.5	13.0	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	*351525.3N / 1395859.8E*	POLIX	*361237.1N / 1402622.5E*
CHIPS	*361247.7N / 1401436.9E*	TT465	*352939.2N / 1401235.4E*
COACH	*353736.0N / 1401231.5E*	TT466	*352539.0N / 1401840.1E*
COLOR	*360116.3N / 1401219.8E*	TT467	*352110.2N / 1402124.4E*
COPSE	*354658.8N / 1401205.4E*	TT468	*351216.4N / 1401402.6E*
CREAM	*351743.4N / 1400612.4E*	TT469	*351217.9N / 1400534.7E*
EDDIE	*351447.4N / 1402140.9E*	UMUKI	*351219.1N / 1394849.2E*
KAIHO	*351857.8N / 1394642.4E*		

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL / AKSEL 2H ARRIVAL
AROSA 2H ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CLONE	–	095 (087.8)	-7.5	36.3	–	–	–	–	RNAV1
003	TF	TT460	–	068 (060.7)	-7.5	10.1	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1
011	TF	CLOAK	–	247 (240.0)	-7.5	3.8	–	–	–	–	RNAV1
012	TF	CAMEL	–	308 (300.1)	-7.5	3.0	–	–	–	–	RNAV1
013	TF	CACAO	–	338 (330.1)	-7.5	5.7	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2H ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CLONE	–	085 (077.0)	-7.5	14.8	–	–	–	–	RNAV1
003	TF	TT460	–	068 (060.7)	-7.5	10.1	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1
011	TF	CLOAK	–	247 (240.0)	-7.5	3.8	–	–	–	–	RNAV1
012	TF	CAMEL	–	308 (300.1)	-7.5	3.0	–	–	–	–	RNAV1
013	TF	CACAO	–	338 (330.1)	-7.5	5.7	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

AROSA 2H ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, toTT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	TT460	–	352 (344.5)	-7.5	7.2	–	–	–	–	RNAV1
004	TF	TT461	–	044 (036.1)	-7.5	14.4	–	–	–	–	RNAV1
005	TF	CIVIC	–	345 (337.7)	-7.5	8.8	–	7000	210	–	RNAV1
006	TF	TT462	–	345 (337.7)	-7.5	6.4	–	–	–	–	RNAV1
007	TF	TT463	–	006 (358.0)	-7.5	6.9	–	–	–	–	RNAV1
008	TF	TT464	–	341 (333.5)	-7.5	5.4	–	–	–	–	RNAV1
009	TF	EPSON	–	317 (309.0)	-7.5	6.9	–	7000	210	–	RNAV1
010	TF	CREAM	–	211 (203.6)	-7.5	14.1	–	–	–	–	RNAV1
011	TF	CLOAK	–	247 (240.0)	-7.5	3.8	–	–	–	–	RNAV1
012	TF	CAMEL	–	308 (300.1)	-7.5	3.0	–	–	–	–	RNAV1
013	TF	CACAO	–	338 (330.1)	-7.5	5.7	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	CREAM	*351743.4N / 1400612.4E*
AROSA	*344201.7N / 1404157.3E*	EPSON	*353036.2N / 1401305.9E*
AVEEY	*344155.9N / 1402158.0E*	TT460	*344852.6N / 1401936.8E*
CACAO	*352212.8N / 1395530.1E*	TT461	*350030.2N / 1402957.9E*
CAMEL	*351718.2N / 1395857.8E*	TT462	*351433.3N / 1402254.8E*
CIVIC	*350840.6N / 1402552.1E*	TT463	*352125.4N / 1402237.1E*
CLOAK	*351548.0N / 1400208.2E*	TT464	*352617.6N / 1401938.6E*
CLONE	*344357.8N / 1400856.0E*	XAC	*344244.1N / 1392450.5E*

CHANGE : AVEEY renamed

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STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL
POLIX 1H ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	CHIPS	–	197 (189.1)	-7.5	11.8	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	CREAM	–	291 (283.1)	-7.5	13.0	–	–	–	–	RNAV1
011	TF	CLOAK	–	247 (240.0)	-7.5	3.8	–	–	–	–	RNAV1
012	TF	CAMEL	–	308 (300.1)	-7.5	3.0	–	–	–	–	RNAV1
013	TF	CACAO	–	338 (330.1)	-7.5	5.7	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1H ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	CHIPS	–	279 (271.1)	-7.5	9.5	–	-13000	–	–	RNAV1
003	TF	COLOR	–	197 (189.1)	-7.5	11.7	–	-11000	–	–	RNAV1
004	TF	COPSE	–	188 (180.8)	-7.5	14.3	–	–	–	–	RNAV1
005	TF	COACH	–	185 (177.8)	-7.5	9.4	–	8000	210	–	RNAV1
006	TF	TT465	–	187 (179.6)	-7.5	8.0	–	–	–	–	RNAV1
007	TF	TT466	–	136 (128.9)	-7.5	6.4	–	–	–	–	RNAV1
008	TF	TT467	–	161 (153.5)	-7.5	5.0	–	–	–	–	RNAV1
009	TF	EDDIE	–	186 (178.0)	-7.5	6.4	–	8000	210	–	RNAV1
010	TF	CREAM	–	291 (283.1)	-7.5	13.0	–	–	–	–	RNAV1
011	TF	CLOAK	–	247 (240.0)	-7.5	3.8	–	–	–	–	RNAV1
012	TF	CAMEL	–	308 (300.1)	-7.5	3.0	–	–	–	–	RNAV1
013	TF	CACAO	–	338 (330.1)	-7.5	5.7	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY34R/34L

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CACAO	*352212.8N / 1395530.1E*	CREAM	*351743.4N / 1400612.4E*
CAMEL	*351718.2N / 1395857.8E*	EDDIE	*351447.4N / 1402140.9E*
CHIPS	*361247.7N / 1401436.9E*	GODIN	*362425.3N / 1401655.9E*
CLOAK	*351548.0N / 1400208.2E*	POLIX	*361237.1N / 1402622.5E*
COACH	*353736.0N / 1401231.5E*	TT465	*352939.2N / 1401235.4E*
COLOR	*360116.3N / 1401219.8E*	TT466	*352539.0N / 1401840.1E*
COPSE	*354658.8N / 1401205.4E*	TT467	*352110.2N / 1402124.4E*

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1N ARRIVAL
OSHIMA 2N ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

OSHIMA 1N ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	13000	230	–	RNAV1
003	TF	SOLAR	–	026 (018.4)	-7.5	9.1	–	13000	230	–	RNAV1
004	TF	SCOUT	–	052 (044.3)	-7.5	10.1	–	–	–	–	RNAV1
005	TF	TT250	–	131 (123.1)	-7.5	9.0	–	–	–	–	RNAV1
006	TF	TT251	–	110 (102.5)	-7.5	7.1	–	–	–	–	RNAV1
007	TF	TT252	–	092 (084.3)	-7.5	7.1	–	–	–	–	RNAV1
008	TF	STOCK	–	071 (063.6)	-7.5	9.0	–	13000	230	–	RNAV1
009	TF	SHAFT	–	330 (322.4)	-7.5	22.5	–	8000	–	–	RNAV1
010	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2N ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AKSEL	–	103 (095.3)	-7.5	22.0	–	12000	230	–	RNAV1
003	TF	LAFIT	–	067 (059.5)	-7.5	15.3	–	-10000	–	–	RNAV1
004	TF	STING	–	067 (059.6)	-7.5	7.0	–	-9000	–	–	RNAV1
005	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
006	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
007	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	SPARK	*350312.0N / 1401416.7E*
ANZAC	*345028.8N / 1394146.7E*	STOCK	*350438.7N / 1403002.9E*
LAFIT	*344826.0N / 1400732.4E*	STING	*345157.9N / 1401453.4E*
NYLON	*354018.5N / 1400919.9E*	TT250	*350129.7N / 1400308.5E*
SCOUT	*350624.1N / 1395356.8E*	TT251	*345957.7N / 1401136.0E*
SHAFT	*352227.4N / 1401313.3E*	TT252	*350039.9N / 1402013.0E*
SOLAR	*345909.2N / 1394518.5E*	XAC	*344244.1N / 1392450.5E*

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL OSHIMA 2B ARRIVAL	RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	13000	230	–	RNAV1
003	TF	SOLAR	–	026 (018.4)	-7.5	9.1	–	13000	230	–	RNAV1
004	TF	SCOUT	–	052 (044.3)	-7.5	10.1	–	–	–	–	RNAV1
005	TF	TT250	–	131 (123.1)	-7.5	9.0	–	–	–	–	RNAV1
006	TF	TT251	–	110 (102.5)	-7.5	7.1	–	–	–	–	RNAV1
007	TF	TT252	–	092 (084.3)	-7.5	7.1	–	–	–	–	RNAV1
008	TF	STOCK	–	071 (063.6)	-7.5	9.0	–	13000	230	–	RNAV1
009	TF	SHAFT	–	330 (322.4)	-7.5	22.5	–	8000	–	–	RNAV1
010	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

OSHIMA 2B ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AKSEL	–	103 (095.3)	-7.5	22.0	–	12000	230	–	RNAV1
003	TF	LAFIT	–	067 (059.5)	-7.5	15.3	–	-10000	–	–	RNAV1
004	TF	STING	–	067 (059.6)	-7.5	7.0	–	-9000	–	–	RNAV1
005	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
006	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
007	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	SPARK	*350312.0N / 1401416.7E*
ANZAC	*345028.8N / 1394146.7E*	STOCK	*350438.7N / 1403002.9E*
BACON	*353155.0N / 1401215.1E*	STING	*345157.9N / 1401453.4E*
LAFIT	*344826.0N / 1400732.4E*	TT250	*350129.7N / 1400308.5E*
SCOUT	*350624.1N / 1395356.8E*	TT251	*345957.7N / 1401136.0E*
SHAFT	*352227.4N / 1401313.3E*	TT252	*350039.9N / 1402013.0E*
SOLAR	*345909.2N / 1394518.5E*	XAC	*344244.1N / 1392450.5E*

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL
AKSEL 2N ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	SALLY	–	023 (015.0)	-7.5	13.4	–	12000	230	–	RNAV1
003	TF	TT253	–	048 (040.5)	-7.5	8.5	–	–	–	–	RNAV1
004	TF	TT254	–	109 (102.0)	-7.5	7.6	–	–	–	–	RNAV1
005	TF	TT255	–	092 (084.4)	-7.5	7.6	–	–	–	–	RNAV1
006	TF	STOWE	–	071 (063.6)	-7.5	9.6	–	12000	230	–	RNAV1
007	TF	SHAFT	–	330 (322.4)	-7.5	24.0	–	8000	–	–	RNAV1
008	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

AKSEL 2N ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	LAFIT	–	067 (059.5)	-7.5	15.3	–	-10000	–	–	RNAV1
003	TF	STING	–	067 (059.6)	-7.5	7.0	–	-9000	–	–	RNAV1
004	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
005	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
006	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	STING	*345157.9N / 1401453.4E*
LAFIT	*344826.0N / 1400732.4E*	STOWE	*350325.9N / 1403111.4E*
NYLON	*354018.5N / 1400919.9E*	TT253	*350001.4N / 1400224.6E*
SALLY	*345333.9N / 1395540.1E*	TT254	*345826.5N / 1401129.4E*
SHAFT	*352227.4N / 1401313.3E*	TT255	*345910.9N / 1402041.4E*
SPARK	*350312.0N / 1401416.7E*		

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL
AKSEL 2B ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	SALLY	–	023 (015.0)	-7.5	13.4	–	12000	230	–	RNAV1
003	TF	TT253	–	048 (040.5)	-7.5	8.5	–	–	–	–	RNAV1
004	TF	TT254	–	109 (102.0)	-7.5	7.6	–	–	–	–	RNAV1
005	TF	TT255	–	092 (084.4)	-7.5	7.6	–	–	–	–	RNAV1
006	TF	STOWE	–	071 (063.6)	-7.5	9.6	–	12000	230	–	RNAV1
007	TF	SHAFT	–	330 (322.4)	-7.5	24.0	–	8000	–	–	RNAV1
008	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

AKSEL 2B ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	12000	230	–	RNAV1
002	TF	LAFIT	–	067 (059.5)	-7.5	15.3	–	-10000	–	–	RNAV1
003	TF	STING	–	067 (059.6)	-7.5	7.0	–	-9000	–	–	RNAV1
004	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
005	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
006	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	STING	*345157.9N / 1401453.4E*
BACON	*353155.0N / 1401215.1E*	STOWE	*350325.9N / 1403111.4E*
LAFIT	*344826.0N / 1400732.4E*	TT253	*350001.4N / 1400224.6E*
SALLY	*345333.9N / 1395540.1E*	TT254	*345826.5N / 1401129.4E*
SHAFT	*352227.4N / 1401313.3E*	TT255	*345910.9N / 1402041.4E*
SPARK	*350312.0N / 1401416.7E*		

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1N ARRIVAL
AROSA 2N ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

AROSA 1N ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	ALDEN	–	337 (330.0)	-7.5	11.3	–	11000	230	–	RNAV1
004	TF	TT256	–	337 (329.9)	-7.5	6.1	–	–	–	–	RNAV1
005	TF	TT257	–	290 (282.4)	-7.5	8.1	–	–	–	–	RNAV1
006	TF	SLICK	–	311 (303.1)	-7.5	10.2	–	11000	230	–	RNAV1
007	TF	SHAFT	–	052 (044.3)	-7.5	25.6	–	8000	–	–	RNAV1
008	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established). HLDG pattern at STING deleted.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2N ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	STING	–	337 (330.0)	-7.5	11.6	–	-9000	–	–	RNAV1
004	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
005	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
006	TF	NYLON	–	357 (350.0)	-7.5	18.1	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	*345141.1N / 1401505.3E*	SLICK	*350412.7N / 1395120.0E*
AROSA	*344201.7N / 1404157.3E*	SPARK	*350312.0N / 1401416.7E*
AVEEY	*344155.9N / 1402158.0E*	STING	*345157.9N / 1401453.4E*
NYLON	*354018.5N / 1400919.9E*	TT256	*345655.4N / 1401122.9E*
SHAFT	*352227.4N / 1401313.3E*	TT257	*345838.5N / 1400146.6E*

CHANGE : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL
AROSA 2B ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	ALDEN	–	337 (330.0)	-7.5	11.3	–	11000	230	–	RNAV1
004	TF	TT256	–	337 (329.9)	-7.5	6.1	–	–	–	–	RNAV1
005	TF	TT257	–	290 (282.4)	-7.5	8.1	–	–	–	–	RNAV1
006	TF	SLICK	–	311 (303.1)	-7.5	10.2	–	11000	230	–	RNAV1
007	TF	SHAFT	–	052 (044.3)	-7.5	25.6	–	8000	–	–	RNAV1
008	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established), HLDG pattern at STING deleted.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2B ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT , to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	STING	–	337 (330.0)	-7.5	11.6	–	-9000	–	–	RNAV1
004	TF	SPARK	–	005 (357.4)	-7.5	11.3	–	-7000	–	–	RNAV1
005	TF	SHAFT	–	005 (357.4)	-7.5	19.3	–	5000	–	–	RNAV1
006	TF	BACON	–	003 (355.2)	-7.5	9.5	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	*345141.1N / 1401505.3E*	SLICK	*350412.7N / 1395120.0E*
AROSA	*344201.7N / 1404157.3E*	SPARK	*350312.0N / 1401416.7E*
AVEEY	*344155.9N / 1402158.0E*	STING	*345157.9N / 1401453.4E*
BACON	*353155.0N / 1401215.1E*	TT256	*345655.4N / 1401122.9E*
SHAFT	*352227.4N / 1401313.3E*	TT257	*345838.5N / 1400146.6E*

CHANGE : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1S ARRIVAL
GODIN 1D ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8˚ W(2019)

CHANGE : COORD of MORIYA DME(SND).

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY22/23

GODIN 1S ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	+8000	–	–	RNAV1
003	TF	SCREW	–	203 (195.2)	-7.5	18.8	–	–	–	–	RNAV1
004	TF	STEAM	–	168 (160.4)	-7.5	7.6	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1D ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	+8000	–	–	RNAV1
003	TF	DREAD	–	191 (183.1)	-7.5	17.2	–	–	–	–	RNAV1
004	TF	DENNY	–	167 (159.9)	-7.5	16.5	–	–	–	–	RNAV1
005	TF	DATUM		167 (160.0)	-7.5	5.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DATUM	*354259.6N / 1400824.3E*	NOVEL	*362106.9N / 1400004.9E*
DENNY	*354828.8N / 1400556.4E*	SCREW	*360301.2N / 1395400.4E*
DREAD	*360359.2N / 1395856.9E*	STEAM	*355553.3N / 1395708.4E*
GODIN	*362425.3N / 1401655.9E*		

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL POLIX 1D ARRIVAL	RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : COORD of MORIYA DME(SND).

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	GODIN	–	335 (327.2)	-7.5	14.1	–	–	–	–	RNAV1
003	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	+8000	–	–	RNAV1
004	TF	SCREW	–	203 (195.2)	-7.5	18.8	–	–	–	–	RNAV1
005	TF	STEAM	–	168 (160.4)	-7.5	7.6	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1D ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	GODIN	–	335 (327.2)	-7.5	14.1	–	–	–	–	RNAV1
003	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	+8000	–	–	RNAV1
004	TF	DREAD	–	191 (183.1)	-7.5	17.2	–	–	–	–	RNAV1
005	TF	DENNY	–	167 (159.9)	-7.5	16.5	–	–	–	–	RNAV1
006	TF	DATUM	–	167 (160.0)	-7.5	5.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DATUM	*354259.6N / 1400824.3E*	NOVEL	*362106.9N / 1400004.9E*
DENNY	*354828.8N / 1400556.4E*	POLIX	*361237.1N / 1402622.5E*
DREAD	*360359.2N / 1395856.9E*	SCREW	*360301.2N / 1395400.4E*
GODIN	*362425.3N / 1401655.9E*	STEAM	*355553.3N / 1395708.4E*

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL
OSHIMA R ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : ACORN, T6L60 abolished. ANZAC, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

From XAC, to ANZAC, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	–	–	–	RNAV1
003	TF	SOLAR	–	026 (018.4)	-7.5	9.1	–	13000	230	–	RNAV1
004	TF	SCOUT	–	052 (044.3)	-7.5	10.1	–	–	–	–	RNAV1
005	TF	TT250	–	131 (123.1)	-7.5	9.0	–	–	–	–	RNAV1
006	TF	TT251	–	110 (102.5)	-7.5	7.1	–	–	–	–	RNAV1
007	TF	TT252	–	092 (084.3)	-7.5	7.1	–	–	–	–	RNAV1
008	TF	STOCK	–	071 (063.6)	-7.5	9.0	–	13000	230	–	RNAV1
009	TF	SHAFT	–	330 (322.4)	-7.5	22.5	–	9000		–	RNAV1
010	TF	SNOKE	–	011 (003.4)	-7.5	13.4	–	–	–	–	RNAV1
011	TF	SPINE	–	348 (340.6)	-7.5	6.8	–	–	–	–	RNAV1
012	TF	SOPPY	–	297 (289.2)	-7.5	8.4	–	-7000	–	–	RNAV1
013	TF	SNARE	–	297 (289.1)	-7.5	7.8	–	6000	–	–	RNAV1
014	TF	SACHS	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
015	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN, T6L60 abolished. ANZAC, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

From XAC, to ANZAC, to SOLAR, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	ANZAC	–	068 (060.8)	-7.5	15.9	–	–	–	–	RNAV1
003	TF	SOLAR	–	026 (018.4)	-7.5	9.1	–	–	230	–	RNAV1
004	TF	SCOUT	–	052 (044.3)	-7.5	10.1	–	–	–	–	RNAV1
005	TF	SCOPE	–	036 (028.5)	-7.5	20.0	–	10000	–	–	RNAV1
006	TF	T6R70	–	036 (028.6)	-7.5	14.0	–	–	–	–	RNAV1
007	TF	NUMAN	–	360 (352.5)	-7.5	11.1	–	9000	210	–	RNAV1
008	TF	NORIK	–	360 (352.5)	-7.5	7.3	–	–	–	–	RNAV1
009	TF	T6R71	–	006 (358.9)	-7.5	6.5	–	–	–	–	RNAV1
010	TF	T6R72	–	342 (334.4)	-7.5	5.0	–	–	–	–	RNAV1
011	TF	NURSE	–	317 (309.8)	-7.5	6.5	–	9000	210	–	RNAV1
012	TF	NEURO	–	213 (205.5)	-7.5	13.5	–	6000	–	–	RNAV1
013	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
014	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANZAC	*345028.8N / 1394146.7E*	SNOKE	*353551.6N / 1401411.7E*
NATTY	*355350.9N / 1394531.3E*	SOLAR	*345909.2N / 1394518.5E*
NEURO	*355727.6N / 1395441.3E*	SOPPY	*354458.8N / 1400140.3E*
NIGEL	*355607.5N / 1395117.8E*	SPINE	*354213.5N / 1401125.8E*
NORIK	*355428.9N / 1401054.5E*	STOCK	*350438.7N / 1403002.9E*
NUMAN	*354714.4N / 1401204.9E*	T6R70	*353614.4N / 1401351.4E*
NURSE	*360939.3N / 1400153.3E*	T6R71	*360059.5N / 1401045.1E*
SACHS	*354838.2N / 1394838.4E*	T6R72	*360530.2N / 1400804.3E*
SANDY	*354917.5N / 1394402.8E*	TT250	*350129.7N / 1400308.5E*
SCOPE	*352358.4N / 1400538.3E*	TT251	*345957.7N /1401136.0E*
SCOUT	*350624.1N / 1395356.8E*	TT252	*350039.9N / 1402013.0E*
SHAFT	*352227.4N / 1401313.3E*	XAC	*344244.1N / 1392450.5E*
SNARE	*354731.1N / 1395238.1E*		

CHANGE : ACORN, T6L60 abolished. ANZAC, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL
AKSEL R ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

AKSEL L ARRIVAL

From AKSEL, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	SALLY	–	023 (015.0)	-7.5	13.4	–	12000	230	–	RNAV1
003	TF	TT253	–	048 (040.5)	-7.5	8.5	–	–	–	–	RNAV1
004	TF	TT254	–	109 (102.0)	-7.5	7.6	–	–	–	–	RNAV1
005	TF	TT255	–	092 (084.4)	-7.5	7.6	–	–	–	–	RNAV1
006	TF	STOWE	–	071 (063.6)	-7.5	9.6	–	12000	230	–	RNAV1
007	TF	SHAFT	–	330 (322.4)	-7.5	24.0	–	9000	–	–	RNAV1
008	TF	SNOKE	–	011 (003.4)	-7.5	13.4	–	–	–	–	RNAV1
009	TF	SPINE	–	348 (340.6)	-7.5	6.8	–	–	–	–	RNAV1
010	TF	SOPPY	–	297 (289.2)	-7.5	8.4	–	-7000	–	–	RNAV1
011	TF	SNARE	–	297 (289.1)	-7.5	7.8	–	6000	–	–	RNAV1
012	TF	SACHS	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
013	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL R ARRIVAL

From AKSEL, to SALLY, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	SALLY	–	023 (015.0)	-7.5	13.4	–	–	230	–	RNAV1
003	TF	SCOUT	–	001 (353.7)	-7.5	12.9	–	–	–	–	RNAV1
004	TF	SCOPE	–	036 (028.5)	-7.5	20.0	–	10000	–	–	RNAV1
005	TF	T6R70	–	036 (028.6)	-7.5	14.0	–	–	–	–	RNAV1
006	TF	NUMAN	–	360 (352.5)	-7.5	11.1	–	9000	210	–	RNAV1
007	TF	NORIK	–	360 (352.5)	-7.5	7.3	–	–	–	–	RNAV1
008	TF	T6R71	–	006 (358.9)	-7.5	6.5	–	–	–	–	RNAV1
009	TF	T6R72	–	342 (334.4)	-7.5	5.0	–	–	–	–	RNAV1
010	TF	NURSE	–	317 (309.8)	-7.5	6.5	–	9000	210	–	RNAV1
011	TF	NEURO	–	213 (205.5)	-7.5	13.5	–	6000	–	–	RNAV1
012	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
013	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	SHAFT	*352227.4N / 1401313.3E*
NATTY	*355350.9N / 1394531.3E*	SNARE	*354731.1N / 1395238.1E*
NEURO	*355727.6N / 1395441.3E*	SNOKE	*353551.6N / 1401411.7E*
NIGEL	*355607.5N / 1395117.8E*	SOPPY	*354458.8N / 1400140.3E*
NORIK	*355428.9N / 1401054.5E*	SPINE	*354213.5N / 1401125.8E*
NUMAN	*354714.4N / 1401204.9E*	STOWE	*350325.9N / 1403111.4E*
NURSE	*360939.3N / 1400153.3E*	T6R70	*353614.4N / 1401351.4E*
SACHS	*354838.2N / 1394838.4E*	T6R71	*360059.5N / 1401045.1E*
SALLY	*345333.9N / 1395540.1E*	T6R72	*360530.2N / 1400804.3E*
SANDY	*354917.5N / 1394402.8E*	TT253	*350001.4N / 1400224.6E*
SCOPE	*352358.4N / 1400538.3E*	TT254	*345826.5N / 1401129.4E*
SCOUT	*350624.1N / 1395356.8E*	TT255	*345910.9N / 1402041.4E*

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL
AROSA R ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

AROSA L ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	ALDEN	–	337 (330.0)	-7.5	11.3	–	11000	230	–	RNAV1
004	TF	TT256	–	337 (329.9)	-7.5	6.1	–	–	–	–	RNAV1
005	TF	TT257	–	290 (282.4)	-7.5	8.1	–	–	–	–	RNAV1
006	TF	SLICK	–	311 (303.1)	-7.5	10.2	–	11000	230	–	RNAV1
007	TF	SHAFT	–	052 (044.3)	-7.5	25.6	–	9000	–	–	RNAV1
008	TF	SNOKE	–	011 (003.4)	-7.5	13.4	–	–	–	–	RNAV1
009	TF	SPINE	–	348 (340.6)	-7.5	6.8	–	–	–	–	RNAV1
010	TF	SOPPY	–	297 (289.2)	-7.5	8.4	–	-7000	–	–	RNAV1
011	TF	SNARE	–	297 (289.1)	-7.5	7.8	–	6000	–	–	RNAV1
012	TF	SACHS	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
013	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA R ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	11000	230	–	RNAV1
003	TF	ALDEN	–	337 (330.0)	-7.5	11.3	–	11000	230	–	RNAV1
004	TF	TT256	–	337 (329.9)	-7.5	6.1	–	–	–	–	RNAV1
005	TF	TT257	–	290 (282.4)	-7.5	8.1	–	–	–	–	RNAV1
006	TF	SCOUT	–	328 (320.5)	-7.5	10.1	–	–	–	–	RNAV1
007	TF	SCOPE	–	036 (028.5)	-7.5	20.0	–	10000	–	–	RNAV1
008	TF	T6R70	–	036 (028.6)	-7.5	14.0	–	–	–	–	RNAV1
009	TF	NUMAN	–	360 (352.5)	-7.5	11.1	–	9000	210	–	RNAV1
010	TF	NORIK	–	360 (352.5)	-7.5	7.3	–	–		–	RNAV1
011	TF	T6R71	–	006 (358.9)	-7.5	6.5	–	–	–	–	RNAV1
012	TF	T6R72	–	342 (334.4)	-7.5	5.0	–	–	–	–	RNAV1
013	TF	NURSE	–	317 (309.8)	-7.5	6.5	–	9000	210	–	RNAV1
014	TF	NEURO	–	213 (205.5)	-7.5	13.5	–	6000	–	–	RNAV1
015	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
016	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	*345141.1N / 1401505.3E*	SCOUT	*350624.1N / 1395356.8E*
AROSA	*344201.7N / 1404157.3E*	SHAFT	*352227.4N / 1401313.3E*
AVEEY	*344155.9N / 1402158.0E*	SLICK	*350412.7N / 1395120.0E*
NATTY	*355350.9N / 1394531.3E*	SNARE	*354731.1N / 1395238.1E*
NEURO	*355727.6N / 1395441.3E*	SNOKE	*353551.6N / 1401411.7E*
NIGEL	*355607.5N / 1395117.8E*	SOPPY	*354458.8N / 1400140.3E*
NORIK	*355428.9N / 1401054.5E*	SPINE	*354213.5N / 1401125.8E*
NUMAN	*354714.4N / 1401204.9E*	T6R70	*353614.4N / 1401351.4E*
NURSE	*360939.3N / 1400153.3E*	T6R71	*360059.5N / 1401045.1E*
SACHS	*354838.2N / 1394838.4E*	T6R72	*360530.2N / 1400804.3E*
SANDY	*354917.5N / 1394402.8E*	TT256	*345655.4N / 1401122.9E*
SCOPE	*352358.4N / 1400538.3E*	TT257	*345838.5N / 1400146.6E*

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN L ARRIVAL
GODIN R ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

GODIN L ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
007	TF	SNARE	–	255 (247.0)	-7.5	17.2	–	6000	–	–	RNAV1
008	TF	SACHS	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
009	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN R ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GODIN	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
007	TF	NEURO	–	290 (282.9)	-7.5	14.5	–	6000	–	–	RNAV1
008	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
009	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	*362425.3N / 1401655.9E*	NOVEL	*362106.9N / 1400004.9E*
NAMCO	*361035.1N / 1400226.3E*	SACHS	*354838.2N / 1394838.4E*
NATTY	*355350.9N / 1394531.3E*	SANDY	*354917.5N / 1394402.8E*
NEURO	*355727.6N / 1395441.3E*	SNARE	*354731.1N / 1395238.1E*
NIGEL	*355607.5N / 1395117.8E*	TT680	*360608.2N / 1400904.0E*
NILUS	*355415.2N / 1401208.8E*	TT681	*360113.8N / 1401158.7E*

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL
POLIX R ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	GODIN	–	335 (327.2)	-7.5	14.1	–	–	–	–	RNAV1
003	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
004	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
005	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
006	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
007	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
008	TF	SNARE	–	255 (247.0)	-7.5	17.2	–	6000	–	–	RNAV1
009	TF	SACHS	–	297 (289.0)	-7.5	3.4	–	–	–	–	RNAV1
010	TF	SANDY	–	288 (280.0)	-7.5	3.8	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX R ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	POLIX	–	–	-7.5	–	–	FL150	–	–	RNAV1
002	TF	GODIN	–	335 (327.2)	-7.5	14.1	–	–	–	–	RNAV1
003	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
004	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
005	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
006	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
007	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
008	TF	NEURO	–	290 (282.9)	-7.5	14.5	–	6000	–	–	RNAV1
009	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
010	TF	NATTY	–	252 (244.1)	-7.5	5.2	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	*362425.3N / 1401655.9E*	POLIX	*361237.1N / 1402622.5E*
NAMCO	*361035.1N / 1400226.3E*	SACHS	*354838.2N / 1394838.4E*
NATTY	*355350.9N / 1394531.3E*	SANDY	*354917.5N / 1394402.8E*
NEURO	*355727.6N / 1395441.3E*	SNARE	*354731.1N / 1395238.1E*
NIGEL	*355607.5N / 1395117.8E*	TT680	*360608.2N / 1400904.0E*
NILUS	*355415.2N / 1401208.8E*	TT681	*360113.8N / 1401158.7E*
NOVEL	*362106.9N / 1400004.9E*		

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL — RNAV STAR

OSHIMA NIGHT ARRIVAL / AKSEL NIGHT ARRIVAL
AROSA NIGHT ARRIVAL / MESSE NIGHT ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

OSHIMA NIGHT ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	067 (059.2)	-7.5	27.6	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

AKSEL NIGHT ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	014 (006.6)	-7.5	16.2	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA NIGHT ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	–	–	–	RNAV1
003	TF	UTIBO	–	310 (302.8)	-7.5	27.5	–	–	–	–	RNAV1
004	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
005	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

MESSE NIGHT ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MESSE	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	246 (238.8)	-7.5	27.4	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	–	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	6000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	MESSE	*351100.8N / 1402214.7E*
AROSA	*344201.7N / 1404157.3E*	UMUKI	*351219.1N / 1394849.2E*
AVEEY	*344155.9N / 1402158.0E*	UTIBO	*345647.0N / 1395343.9E*
KAIHO	*351857.8N / 1394642.4E*	XAC	*344244.1N / 1392450.5E*

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA V ARRIVAL / AKSEL V ARRIVAL AROSA V ARRIVAL / MESSE V ARRIVAL	RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

OSHIMA V ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	XAC	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	067 (059.2)	-7.5	27.6	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	+4000	–	–	RNAV1
005	TF	LD225	–	046 (038.9)	-7.5	9.3	–	–	-220	–	RNAV1
006	TF	LD224	–	052 (044.9)	-7.5	9.4	–	–	–	–	RNAV1
007	TF	DARKS	–	307 (299.7)	-7.5	2.8	–	+1800	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

AKSEL V ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AKSEL	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	014 (006.6)	-7.5	16.2	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	+4000	–	–	RNAV1
005	TF	LD225	–	046 (038.9)	-7.5	9.3	–	–	-220	–	RNAV1
006	TF	LD224	–	052 (044.9)	-7.5	9.4	–	–	–	–	RNAV1
007	TF	DARKS	–	307 (299.7)	-7.5	2.8	–	+1800	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

AROSA V ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above1800FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AROSA	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	AVEEY	–	277 (269.8)	-7.5	16.4	–	–	–	–	RNAV1
003	TF	UTIBO	–	310 (302.8)	-7.5	27.5	–	–	–	–	RNAV1
004	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
005	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	+4000	–	–	RNAV1
006	TF	LD225	–	046 (038.9)	-7.5	9.3	–	–	-220	–	RNAV1
007	TF	LD224	–	052 (044.9)	-7.5	9.4	–	–	–	–	RNAV1
008	TF	DARKS	–	307 (299.7)	-7.5	2.8	–	+1800	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL RNAV STAR

MESSE V ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MESSE	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	UTIBO	–	246 (238.8)	-7.5	27.4	–	–	–	–	RNAV1
003	TF	UMUKI	–	353 (345.5)	-7.5	16.1	–	+6000	–	–	RNAV1
004	TF	KAIHO	–	353 (345.5)	-7.5	6.9	–	+4000	–	–	RNAV1
005	TF	LD225	–	046 (038.9)	-7.5	9.3	–	–	-220	–	RNAV1
006	TF	LD224	–	052 (044.9)	-7.5	9.4	–	–	–	–	RNAV1
007	TF	DARKS	–	307 (299.7)	-7.5	2.8	–	+1800	–	–	RNAV1

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	6000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	LD225	*352614.1N / 1395353.4E*
AROSA	*344201.7N / 1404157.3E*	MESSE	*351100.8N / 1402214.7E*
AVEEY	*344155.9N / 1402158.0E*	UMUKI	*351219.1N / 1394849.2E*
DARKS	*353414.8N / 1395902.9E*	UTIBO	*345647.0N / 1395343.9E*
KAIHO	*351857.8N / 1394642.4E*	XAC	*344244.1N / 1392450.5E*
LD224	*353252.5N / 1400200.0E*		

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS Z RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–GP 333.5 ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY34R

MISSED APPROACH

Climb on HDG 337° to 500FT, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 18		AD elev. 21	
CAT	CAT Ⅰ		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	218 (200)	550	730 (709)	1600
B				
C				2400
D				3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC Z RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

NM to IHA	MAPt	2	3	4	5	FAF
ALT (3.0˚ APCH Path)	–	646	964	1283	1601	1768

MISSED APPROACH

Turn left, climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IHA	0.2	0.6	1.8	3.2	5.5	15.1	19.6
NM to THR	0	0.5	1.6	3.0	5.3	14.9	19.4

MINIMA THR elev. 18 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	560 (539)	1000	730 (709)	1600
B		1200		
C				2400
D		1600		3200

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS Y RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–GP 333.5 ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

AZURE(FAF) : *352821.48N/1394951.68E*

Note : 1. For Initial approach segment
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

MISSED APPROACH

Climb on HDG 337˚ to 800FT, turn right climb to 3000FT via HME R091 to CHIBA and hold. Contact TOKYO APP.

DME to IHA	0.2	4.6	6.6
NM to THR	0	4.4	6.4

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 18 AD elev. 21

CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	218 (200)	550	730 (709)	1600
B				
C				2400
D				3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC Y RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

AXIZU(FAF) : *352909.33N/1394917.76E*

Note : 1. For Initial approach segment
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

NM to IHA	MAPt	2	3	FAF
ALT (3.0˚ APCH Path)	–	646	964	1184

MISSED APPROACH

Climb on HDG 337˚ to 800FT, turn right, climb to 3000FT via HME R091 to CHIBA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IHA	0.2	0.6	1.8	3.2	3.7	8.7
NM to THR	0	0.5	1.6	3.0	3.5	8.5

MINIMA THR elev. 18 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	560 (539)	1000	730 (709)	1600
B		1200		
C				2400
D		1600		3200

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS X RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–GP 333.5 ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY34R

MISSED APPROACH

Climb on HDG 337˚ to HME 3.0DME, turn right HDG 060˚ to intercept and proceed via HME R015/SYE R196 to KASGA and hold at 4000FT.
Contact TOKYO APP.

DME to IHA	0.2	4.6	6.6
NM to THR	0	4.4	6.4

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 18 AD elev. 21

CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	218 (200)	550	730 (709)	1600
B				
C				2400
D				3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC X RWY34L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.7 IHA ILS–DME CH–54X	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

AXIZU(FAF) : *352909.33N/1394917.76E*

Note : 1. For Initial approach segment
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

NM to IHA	MAPt	2	3	FAF
ALT (3.0˚ APCH Path)	–	646	964	1184

MISSED APPROACH

Climb on HDG 337˚ to HME 3.0DME, turn right HDG 060˚ to intercept and proceed via HME R015/SYE R196 to KASGA and hold at 4000FT.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IHA	0.2 0.6	1.8	3.2	3.7	8.7
NM to THR	0 0.5	1.6	3.0	3.5	8.5

Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 18		AD elev. 21	
CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	560 (539)	1000	730 (709)	1600
B		1200		
C				2400
D		1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L/34R.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — VOR RWY34L

TOKYO APP	HANEDA VOR/DME	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	112.2 HME CH-59X *35°33´44˝N/139°45´40˝E*	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

NM to HME	MAPt	4	5	6	7	8	FAF
ALT (3.0° APCH Path)	–	722	1041	1359	1678	1996	2043

MISSED APPROACH
Turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to HME	1.9	3.1	3.6	5.0	8.2	14.0
NM to THR	0	1.2	1.7	3.1	6.3	12.1

MINIMA — THR elev. 18 — AD elev. 21

CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	580 (559)	1000	730 (709)	1600
B		1200		
C				2400
D		1600		3200

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS Z RWY34R (CAT Ⅱ & Ⅲ)

TOKYO APP	ILS −LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.9 ITC ILS−GP 329.3 ILS−DME CH−26X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY34L

MISSED APPROACH

Climb on HDG337° to 800FT, turn right climb to 4000FT via HME R015/SYE R196 to KASGA and hold.
Contact TOKYO APP.

DME to ITC			0.2	0.4	12.1		17.8	
NM to THR			0	0.2	11.9		17.6	
Missed APCH climb gradient MNM 5.0%								
MINIMA	THR elev. 20				AD elev. 21			
CAT	CAT Ⅲ	CAT Ⅱ			CAT Ⅰ		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	VIS
A	100	120(100)	100	300	220(200)	550	730(709)	1600
B								
C								2400
D								3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY34L.

CHANGE: MINIMA(CAT ⅢA, ⅢB → CAT Ⅲ).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC Z RWY34R

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.9 ITC ILS–DME CH–26X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

NM to ITC	MAPt	3	4	5	FAF
ALT (3.0° APCH Path)	–	970	1289	1607	1768

MISSED APPROACH

Turn right, climb to 4000FT via HME R015/SYE R196 to KASGA and hold.

Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.

DME to ITC	0.2	0.6	2.1	3.0	5.5	12.1	20.3
NM to THR	0	0.5	1.9	2.8	5.3	11.9	20.1

Missed APCH climb gradient MNM 3.0%

MINIMA — THR elev. 20 — AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700 (679)	1200	730 (709)	1600
B		1400		
C				2400
D		1800		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY 34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS Y RWY34R (CAT Ⅱ & Ⅲ)

TOKYO APP	ILS −LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.9 ITC ILS−GP 329.3 ILS−DME CH−26X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

MISSED APPROACH

Climb on HDG337° to 800FT, turn right climb to 3000FT via HME R091 to CHIBA and hold. Contact TOKYO APP.

DME to ITC	0.2	0.4	4.6	6.6	
NM to THR	0	0.2	4.4	6.4	

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20 AD elev. 21

CAT	CAT Ⅲ	CAT Ⅱ			CAT Ⅰ		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	VIS
A	100	120(100)	100	300	220(200)	550	730(709)	1600
B								
C								2400
D								3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY34L.

CHANGE: MINIMA(CAT ⅢA, ⅢB → CAT Ⅲ).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC Y RWY34R

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.9 ITC ⠊.⠤. ILS–DME CH–26X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Note : 1. For Initial approach segment
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

NM to ITC	MAPt	3	FAF
ALT (3.0° APCH Path)	–	970	1193

MISSED APPROACH
Turn right, climb to 3000FT via HME R091 to CHIBA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.

DME to ITC	0.2	0.6	2.1	3.0	3.7	8.7
NM to THR	0	0.5	1.9	2.8	3.5	8.5

MINIMA THR elev. 20 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700 (679)	1200	730 (709)	1600
B		1400		
C				2400
D		1800		3200

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY 34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS RWY22

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.1 IAD ILS–GP 334.7 ILS–DME CH–18X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

Note : 1. For Initial approach segment
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

MISSED APPROACH
Climb on HDG222˚ to 500FT, turn right climb to 4000FT via HME R015/SYE R196 to KASGA and hold.
Contact TOKYO APP.

DME to IAD	0.2	15.0	17.0
NM to THR	0	14.8	16.8

Missed APCH climb gradient MNM 6.0% due to airspace restrictions.

MINIMA THR elev. 35 AD elev. 21

CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	235 (200)	550	730 (709)	1600
B				
C				2400
D				3200

MINIMA with Missed APCH climb gradient below 6.0% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L and clockwise circling to RWY23, RWY34R/34L.

CHANGE: Description of GP angle.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC RWY22

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.1 IAD ILS–DME CH–18X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

NM to IAD	MAPt	2	3	4	5	6	7	8	9	FAF
ALT (3.0° APCH Path)	–	662	986	1299	1618	1936	2255	2573	2891	3000

MISSED APPROACH

Turn right, climb to 4000FT via HME
R015 /SYE R196 to KASGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.

DME to IAD	0.2	0.6	1.9	3.9	9.3	17.0
NM to THR	0	0.5	1.7	3.7	9.1	16.8

Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 35 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	600 (579)	1000	730 (709)	1600
B		1200		
C				2400
D		1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L and clockwise circling to RWY23,RWY34R/34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA Z RWY22

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.1 IKL LDA–DME CH–38X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY23(LDA)

MISSED APPROACH

At MAPt, turn right climb to 4000FT via HME R015 /SYE R196 to KASGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 35	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

Do Not turn left until D1.1 IKL

SO AS NOT TO MISUNDERSTAND THE RUNWAY

MINIMA with Missed APCH climb gradient of 2.5% are not established.
MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA Z RWY22

Visual Prescribed Track for LDA Z RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA Y RWY22

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.1 IKL LDA–DME CH–38X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

MISSED APPROACH

At MAPt, turn left, climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IKL	1.1	6.4	8.4
NM to THR	3.8	9.1	11.1

MINIMA	THR elev. 35	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

Do Not turn left until D1.1 IKL

SO AS NOT TO MISUNDERSTAND THE RUNWAY

CHANGE : Update

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA Y RWY22

Visual Prescribed Track for LDA Y RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn left for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA X RWY22

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.1 IKL LDA–DME CH–38X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY23(LDA)

BONDO(FAF) : *353619.28N/1400442.48E*

Note : 1. For Initial approach segment from over DATUM
(1) RNAV 1
(2) DME/DME/IRU or GNSS required
2. Radar service required.

MISSED APPROACH

At MAPt, turn right climb to 4000FT via HME R015 /SYE R196 to KASGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IKL	1.1	12.7	14.7
NM to THR	3.8	15.4	17.4

Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 35	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

Do Not turn left until D1.1 IKL

SO AS NOT TO MISUNDERSTAND THE RUNWAY

MINIMA with Missed APCH climb gradient of 2.5% are not established.
MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA X RWY22

Visual Prescribed Track for LDA X RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA W RWY22

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.1 IKL LDA–DME CH–38X	118.575 - 118.1 - 124.35 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY23(LDA)

MISSED APPROACH

At MAPt, turn right climb to 4000FT via HME R015 /SYE R196 to KASGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to IKL	1.1	12.7	15.8		
NM to THR	3.8	15.4	18.5	20.9	24.3

Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 35	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

Do Not turn left until D1.1 IKL

SO AS NOT TO MISUNDERSTAND THE RUNWAY

MINIMA with Missed APCH climb gradient of 2.5% are not established.
MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA W RWY22

Visual Prescribed Track for LDA W RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS Z RWY23

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.5 ITD ILS–GP 329.6 ILS–DME CH–42X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

MISSED APPROACH
Climb on HDG232˚ to 500FT,
turn left climb to 4500FT via
HME R177 to UTIBO via URAGA
and hold.
Contact TOKYO APP.

MINIMA	THR elev. 55		AD elev. 21	
CAT	CAT Ⅰ		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	383 (328)	800	730 (709)	1600
B				
C				2400
D				3200

Circling is not authorized during the night time, except counterclockwise circling to RWY22, RWY16R/16L and clockwise circling to RWY34R/34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LOC Z RWY23

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.5 ITD ILS–DME CH–42X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

NM to ITD	MAPt	2	3	4	5	6	7	8	9	FAF
ALT (3.0˚ APCH Path)	–	683	1002	1320	1639	1957	2276	2594	2912	–

MISSED APPROACH
Climb on HDG 232˚ to 500FT, turn left, climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

No turn before MAPt.

DME to ITD	0.2	1.1	1.3	4.0	9.3	17.2
NM to THR	0	0.9	1.1	3.8	9.1	17.1

MINIMA THR elev. 55 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	440 (419)	900	730 (709)	1600
B		1000		
C				2400
D		1400		3200

Circling is not authorized during the night time, except counterclockwise circling to RWY22, RWY16R/16L and clockwise circling to RWY34R/34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS Y or LOC Y RWY23

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	110.5 ITD ILS–GP 329.6 ILS–DME CH–42X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Note : 1. For initial approach segment
(1) RNAV1
(2) DME/DME/IRU or GNSS required
2. Radar service required.
Critical DME
HYD : KAIHO– 1.3NM to LD225
LD224 – DAIYA
HME : LD224 – DAIYA

NM to ITD	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	–	683	1002	1320	1480

MISSED APPROACH

Climb on HDG232° to 500FT, turn left, climb to 4500FT via HME R177 to UTIBO via URAGA and hold.

Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.

DME to ITD	0.2	1.1	1.3	4.5	6.5
NM to THR	0	0.9	1.1	4.3	6.3

MINIMA — THR elev. 55 — AD elev. 21

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	383 (328)	800	440 (419)	900	730 (709)	1600
B				1000		
C						2400
D				1400		3200

Circling is not authorized during the night time, except counterclockwise circling to RWY22, RWY16R/16L and clockwise circling to RWY34R/34L.

CHANGE: Description of GP angle.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA Z RWY23

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.5 ITL LDA–DME CH–22X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY22(LDA)

MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to ITL	4.9	14.5	17.1
NM to THR	3.4	13.0	15.6

MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA Z RWY23

Visual Prescribed Track for LDA Z RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn left HDG 229˚ for joining HME R177 and missed approach procedure.

CHANGE : Correction of misdescription (ITL COORD).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.5 ITL LDA–DME CH–22X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to ITL		4.9	7.9	9.9
NM to THR		3.4	6.4	8.4

MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

CHANGE : Update

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA Y RWY23

Visual Prescribed Track for LDA Y RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn left HDG 229˚ for joining HME R177 and missed approach procedure.

CHANGE : Correction of misdescription (ITL COORD).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA X RWY23

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.5 ITL LDA–DME CH–22X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY22(LDA)

MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to ITL	4.9	14.5	16.5
NM to THR	3.4	13.0	15.0

MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL LDA X RWY23

Visual Prescribed Track for LDA X RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn left HDG 229˚ for joining HME R177 and missed approach procedure.

CHANGE : Correction of misdescription (ITL COORD).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — LDA W RWY23

TOKYO APP	LDA – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	108.5 ITL LDA–DME CH–22X	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY22(LDA)

MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via URAGA and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to ITL	4.9	14.5	17.1	19.8
NM to THR	3.4	13.0	15.6	18.3

MINIMA	THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS
A	1000 (979)	6000
B		
C		
D		

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

Visual Prescribed Track for LDA W RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

In case of GO AROUND, pilot should report ATC as soon as practicable.
Until receiving ATC instructions, aircraft turn left HDG 229˚ for joining HME R177 and missed approach procedure.

CHANGE : Correction of misdescription (ITL COORD).

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)

TOKYO APP	RNP AR	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	RF required.	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C

MISSED APPROACH

Climb to 4500FT, to TT306, to TT307, to UTIBO and hold.
Contact TOKYO APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 55	AD elev. 21
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	330(275)	800
D		1200

Authorization Required

MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL RNP RWY23(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	KAIHO	-	-	-7.2	-	-	+6000	-	-	-
002	TF	TT301	-	046 (038.8)	-7.2	12.2	-	4000	-	-	1.0
003	TF	TT302	-	046 (038.8)	-7.2	0.9	-	3715	-	-3.00	0.3
004	RF Center: TTRF1 r=3.10NM	TT303	-	-	-7.2	7.0	L	1490	-165	-3.00	0.3
005	TF	TT304	-	277 (269.6)	-7.2	1.2	-	1119	-	-3.00	0.3
006	RF Center: TTRF2 r=2.00NM	TT305	-	-	-7.2	1.7	L	585	-	-3.00	0.3
007	TF	RW23	Y	230 (222.5)	-7.2	1.5	-	106	-	-3.00/51	0.3
008	TF	TT306	-	230 (222.5)	-7.2	6.5	-	-	-	-	1.0
009	TF	TT307	-	147 (139.9)	-7.2	4.9	-	-	-	-	1.0
010	TF	UTIBO	-	177 (169.9)	-7.2	27.6	-	4500	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KAIHO	*351857.83N / 1394642.43E*	TTRF1	*353106.44N / 1395349.88E*
TT301	*352828.24N / 1395606.98E*	TTRF2	*353212.62N / 1395225.48E*
TT302	*352909.99N / 1395647.99E*		
TT303	*353413.28N / 1395350.00E*		
TT304	*353412.77N / 1395224.45E*		
TT305	*353332.98N / 1395034.74E*		
RW23	*353226.15N / 1394919.61E*		
TT306	*352740.05N / 1394357.98E*		
TT307	*352356.01N / 1394749.03E*		
UTIBO	*345647.02N / 1395343.90E*		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS or LOC RWY16R

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.55 ITA ILS–GP 332.75 ILS–DME CH–52Y	118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY 16L(ILS)

NM to Next ITA	FAF	9	8	7	6	5	4	3	MAPt
ALT (3.0˚ APCH Path)	2924	2873	2554	2236	1918	1599	1281	962	–

MISSED APPROACH

Climb on HDG157˚ to 700FT, via HME R157 to 11.0DME, turn right HDG222˚ to intercept and proceed via HME R177 to UTIBO and hold at 4500FT.

Contact TOKYO APP.

Timing not authorized for defining the MAPt.

15.3	9.2	4.3	3.3	1.9	0.6	0.2	DME to ITA
15.1	9.0	4.1	3.2	1.7	0.5	0	NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 16 AD elev. 21

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	216 (200)	550	570 (549)	1000	730 (709)	1600
B				1200		
C						2400
D				1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except clockwise circling to RWY16L/22/23/34R/34L.

CHANGE : Description of procedure altitude at FAF.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY16R

TOKYO APP	RNP APCH	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2		118.1 - 124.35 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY 16L(RNP)

Baro-VNAV not authorized below -10℃

VAR 8˚W (2021)

MSA 25NM

6300

ARP

ARP : *353312N/1394652E*

See AIP RJTT AD 2.20.1.8
PAPI Operation during
RNP RWY16R

170KIAS at 10.2NM from THR
if unable advise ATC

NATTY (IAF)	*355350.86N 1394531.32E*
RACER	*355153.42N 1394034.41E*
REMUS	*354807.52N 1393755.52E*
ROWAN (IF)	*354506.89N 1393756.35E*
RIPOD (FAF)	*354212.76N 1394000.68E*
T6R73 (SDF)	*353915.87N 1394206.79E*
T6R74 (SDF)	*353614.00N 1394416.28E*
RW16R (MAPt)	*353322.47N 1394618.19E*
T6R12 (MATF)	*352413.60N 1395247.10E*
T6R76	*351810.92N 1394904.76E*
UTIBO (MAHF)	*345647.02N 1395343.90E*

NM to Next FIX	FAF	10	9	8	7	6	5	4	3	2	MAPt
ALT (3.45˚ APCH Path)	3800	3734	3367	3001	2635	2268	1902	1536	1169	803	–

MISSED APPROACH

Direct to T6R12, to T6R76,to UTIBO and hold at 4500FT.

(For using VOR/DME)
Climb to 4500FT via HME R157 to 11.0DME, turn right HDG 222◦ to intercept and proceed via HME R177 to UTIBO and hold.

Contact TOKYO APP.

PAPI and descent angles not coincident.
(PAPI Angle 3.25°)

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 16 AD elev. 21

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	630 (614)	1000	630 (609)	1000	730 (709)	1600
B		1200		1200		
C						2400
D		1600		1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except clockwise circling to RWY16L/22/23/34R/34L.

CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — ILS or LOC RWY16L

TOKYO APP	ILS – LOC	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	111.95 IOC ILS–GP 330.95 ILS–DME CH–56Y	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY 16R(ILS)

NM to IOC	FAF	12	11	10	9	8	7	6	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	3869	3833	3515	3197	2878	2560	2241	1923	1604	1286	967	649	–

MISSED APPROACH

Climb on HDG157˚ to 700FT,turn left to intercept and proceed via HME R092 to SNOKE and hold at 4000FT.

Contact TOKYO APP.

No turn before IOC 0.6DME.
Timing not authorized for defining the MAPt.

15.1	12.1	6.3	3.1	1.7	0.6	0.2	DME to IOC
15.0	12.0	6.2	3.0	1.5	0.5	0	NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 19 AD elev. 21

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	219 (200)	550	530 (509)	1000	730 (709)	1600
B				1200		
C						2400
D				1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R, clockwise circling to 22/23/34R/34L.

CHANGE : Description of procedure altitude at FAF.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — RNP RWY16L

TOKYO APP	RNP APCH	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2		124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

Simultaneous approach authorized with RWY16R(RNP)

Baro-VNAV not authorized below -10℃

VAR 8˚W (2021)

MSA 25NM

ARP : *353312N/1394652E*

170KIAS at 9.2NM from THR
if unable advise ATC

SANDY (IAF)	*354917.53N 1394402.84E*
LYCEE (IF)	*354454.12N 1394057.40E*
LAUDA (FAF)	*354144.81N 1394139.05E*
T6L61 (SDF)	*353858.19N 1394337.69E*
T6L62 (SDF)	*353611.85N 1394535.96E*
RW16L (MAPt)	*353346.27N 1394719.34E*
SNOKE (MAHF)	*353551.64N 1401411.69E*

See AIP RJTT AD 2.20.1.8
PAPI Operation during RNP RWY16L

NM to Next FIX	FAF	9	8	7	6	5	4	3	2	MAPt
ALT (3.45˚ APCH Path)	3446	3370	3004	2637	2271	1905	1539	1172	806	–

MISSED APPROACH

Turn left, direct SNOKE and hold at 4000FT.

(For using VOR/DME)
Turn left to intercept and proceed via HME R092 to SNOKE and hold. at 4000FT.

Contact TOKYO APP.

PAPI and descent angles not coincident.
(PAPI Angle 3.25°)

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 19 AD elev. 21

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	640 (621)	1000	640 (619)	1000	730 (709)	1600
B		1200		1200		
C						2400
D		1600		1600		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY16R, clockwise circling to RWY22/23/34R/34L.

CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL — VOR A (for RWY16R/RWY16L)

TOKYO APP	HANEDA VOR/DME	TOKYO TOWER	RADAR AVBL
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	112.2 HME CH-59X *35°33´44˝N/139°45´40˝E*	124.35 - 118.1 - 118.575 118.725 - 118.8	ATIS 128.8

MISSED APPROACH

Turn left, climb to 4500FT via HME
R177 to UTIBO via URAGA
and hold.
Contact TOKYO APP.

Timing not authorized for defining the MAPt.
No turn before MAPt.

MINIMA		AD elev. 21
CAT	CIRCLING	
	MDA(H)	VIS
A	760 (739)	1600
B		
C		2400
D		3200

INTENTIONALLY LEFT BLANK

VISUAL APPROACH

RJTT / TOKYO INTL

HIGHWAY VISUAL RWY34R

TOKYO APP	ILS – LOC	TOKYO TOWER	ATIS 128.8
119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2	ITC 108.9 ILS–GP 329.3	124.35 - 118.1 - 118.575 118.725 - 118.8	

Simultaneous approach authorized with RWY34L

When visual approaches to RWY34R are in progress, arriving aircraft may be vectored to CACAO for HIGHWAY VISUAL RWY34R APPROACH.

In the event of a go-around, climb via ITC LOC and after THR HDG030˚ to 3000FT until receiving ATC instructions.

<HIGHWAY VISUAL RWY34R APPROACH>

After CACAO, aircraft proceed to RWY34R (ITC LOC course).

For avoid entering KISARAZU CTR, aircraft is recommended ITC 9.1DME at or above 2500FT, ITC 6.0DME at or above 1500FT.

Note1: Pilot is urged to report promptly to ATC when lose sight of landmark(HIGHWAY) and the preceding aircraft concerned.

Note2: Reference NAVAIDS(ITC LOC) must be operating.

Note3: RADAR service required.

Note4: Procedure not authorized at night in case of Umihotaru Landmark Beacon not operated.

Note5: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

RJTT / TOKYO INTL

HLDG PATTERN

CHANGE : SNOKE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

RNAV 1

1.Outbound Time / Distance
2.Speed
→See Tabular Description.

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	–	L	6000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	4000	–	-230(-14000) -240(+14001)	RNAV1
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	–	R	5000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	*344039.5N / 1395126.9E*	MESSE	*351100.8N / 1402214.7E*
ANZAC	*345028.8N / 1394146.7E*	NEURO	*355727.6N / 1395441.3E*
ARLON	*351525.3N / 1395859.8E*	NOVEL	*362106.9N / 1400004.9E*
AVEEY	*344155.9N / 1402158.0E*	NUMAN	*354714.4N / 1401204.9E*
BACON	*353155.0N / 1401215.1E*	NYLON	*354018.5N / 1400919.9E*
CIVIC	*350840.6N / 1402552.1E*	POLIX	*361237.1N / 1402622.5E*
COACH	*353736.0N / 1401231.5E*	SCREW	*360301.2N / 1395400.4E*
COLOR	*360116.3N / 1401219.8E*	SHAFT	*352227.4N / 1401313.3E*
CREAM	*351743.4N / 1400612.4E*	SNARE	*354731.1N / 1395238.1E*
DENNY	*354828.8N / 1400556.4E*	SPINE	*354213.5N / 1401125.8E*
DREAD	*360359.2N / 1395856.9E*	STING	*345157.9N / 1401453.4E*
GODIN	*362425.3N / 1401655.9E*	WEDGE	*350900.4N / 1395846.5E*
KAIHO	*351857.8N / 1394642.4E*	XAC	*344244.1N / 1392450.5E*

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

Visual REP

※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
渋谷 Shibuya	328°T / 7.4NM	JR駅 JR Station
品川 Shinagawa	336°T / 5.0NM	JR駅 JR Station
洗足 Senzoku	303°T / 5.3NM	池 Pond
丸子橋 Marukobashi	289°T / 5.8NM	橋 Bridge
多摩川大橋 Tamagawaohashi	272°T / 4.2NM	橋 Bridge
新川崎 Shinkawasaki	269°T / 5.4NM	JR駅 JR Station
大師橋 Daishibashi	253°T / 2.0NM	橋 Bridge
六郷橋 Rokugobashi	255°T / 3.7NM	橋 Bridge
扇島 Ogijima	221°T / 5.9NM	扇島の西端 West edge of the island
ベイブリッジ Bay Bridge	221°T / 7.9NM	（首都高速湾岸線）橋 Bridge

RJTT / TOKYO INTL

Minimum Vectoring Altitude CHART

VAR 8˚W (2019)

①CENTER : *353312N/1394652E*(RJTT ARP)
②*354236N/1394839E* RADIUS : 3NM

RJTT / TOKYO INTL LDG CHART

CHANGE : PAPI RWY16L-3.25°, PAPI RWY16R-3.25° installed.

PAPI:

RWY16L–3.0˚,MEHT 19.9m (65ft)
412m inside from THR.

RWY16L–3.25°,MEHT 19.9m(65ft)
378m inside from THR.

RWY34R–3.0˚, MEHT 20.0m (66ft)
416m inside from THR.

RWY16R–3.0˚, MEHT 19.9m (65ft)
432m inside from THR.

RWY16R–3.25°,MEHT 19.9m(65ft)
397m inside from THR.

RWY34L–3.0˚, MEHT 20.0m (66ft)
449m inside from THR.

RWY04–3.0˚, MEHT 18.5m (61ft)
369m inside from THR.

RWY22–3.0˚, MEHT 19.5m (63ft)
438m inside from THR.

RWY23–3.0˚, MEHT 20.0m (66ft)
452m inside from THR.

RWY Grooving :

RWY16L/34R 3360m X 40m

RWY16R/34L 3000m X 40m

RWY04/22 2500m X 40m

RWY05/23 2500m X 40m

Attachment-1