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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL **RNAV SID** NINOX THREE DEPARTURE RNAV1 Note 1) DME/DME/IRU or GNSS required. XThe aircraft equipped with only DME/DME/IRU RWY16R: HME 1.2NM FM DER - 3.8NM to T6R12 must be able to update its position without delay HYD T6R12 - TT631 at the starting point of take-off rolling. PQD 1.0NM to BAYGE - 6.5NM to SEIKO 2) RADAR service required. 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 RWY16R: DER - 1.2NM FM DER HYD 6.5NM to BAYGE - BAYGE Critical DME RWY16L: DER - 1.0NM FM DER PQD BAYGE - 6.5NM to SEIKO DME GAP RWY34R: DER - 1.0NM FM DER RWY34L: HME 0.5NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE - BAYGE RWY34L: DER - 0.5NM FM DER PQD BAYGE - 6.5NM to SEIKO RWY04: DER - 1.7NM FM DER RWY04: HME 1.7NM FM DER - 2.5NM to TT502 RWY22: DER - 1.4NM FM DER 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 Inappropriate See AD1.1.6.10.3.Inappropriate NAVAIDs for Navaids RNAV1 VAR8°W(2020) <u>700</u> NINOX THREE DEPARTURE TT501 VOR/DME **HANEDA** 500 TT502 112.2 HME 600 158 CH-59X **NINOX** 35°33′44″N/139°45′40″E 100FT FL170 16.5 281 **SEIKO** Hobbs 10.5 13000 5000 268 5.6 (from TGR 12) BAYGE 20 (40 m Let 55) T6L22 9000 T6R12 335°/5.0 **BASSA** TT631 Course FM SEIKO to NINOX **UMUKI** PIPER 9000 **CURVA** FL150 SATOL

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 <u>TT501</u>, 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.

RJTT/TOKYO INTL RNAV SID

NINOX THREE DEPARTURE

RWY16R

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	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	_	1	_	_	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

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	Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
	Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	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	_	ı	_	_	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	1	281 (272.9)	-7.6	16.5	_	+FL170	_	_	RNAV1

RWY34L/RWY34R

Serial	Path	Waypoint	Fly	Course	Magnetic	1		Altitude	Speed	Vertical	5
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	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	1	_	RNAV1
004	TF	BAYGE	_	268 (260.6)	-7.6	10.5	_	+9000	ı	_	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

RJTT/TOKYO INTL RNAV SID

RWY04

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	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	ı	_	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

1	1111100											
	Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
	Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
	001	VA	_	_	050 (042.4)	-7.6	_	_	+500	_	_	RNAV1
	002	DF	TT501	Υ	_	-7.6	_	_	_	_	_	RNAV1
-	003	DF	TT502	_	_	-7.6	_	R	_	_	_	RNAV1
	004	TF	LOCUP	_	199 (190.9)	-7.6	5.2	_	+5000	ı	_	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

RJTT/TOKYO INTL RNAV SID

RWY22

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	223 (214.9)	-7.6	_	_	+600	_	_	RNAV1
002	DF	HOBBS	_	I	-7.6	_	┙	ı	1	_	RNAV1
003	TF	BASSA	_	187 (179.9)	-7.6	5.8	-	_	_	_	RNAV1
004	TF	UMUKI	_	172 (163.9)	-7.6	9.2	1	1	1	_	RNAV1
005	TF	PIPER	_	235 (227.4)	-7.6	3.5	-	+9000	_	_	RNAV1
006	TF	SATOL	_	235 (227.4)	-7.6	5.5	I	ı	I	_	RNAV1
007	TF	CURVA	_	300 (292.2)	-7.6	8.2	-	+FL150	-	_	RNAV1
800	TF	NINOX	_	327 (319.6)	-7.6	27.1	_	+FL170	_	_	RNAV1

Waypoint Coordinates

- 1						
	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		
1	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				