

## STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI

RNAV SID

## CUBIC THREE DEPARTURE

RNAV 1

**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 roll.  
2 ) RADAR service required.

**Critical DME**

RWY09 SDE, IXE : 29.0NM to CUBIC – CUBIC  
RWY27 MXT : 4.0NM to BUBLE – 2.0NM to CUBIC  
SDE : 2.0NM to BUBLE – 12.0NM to CUBIC

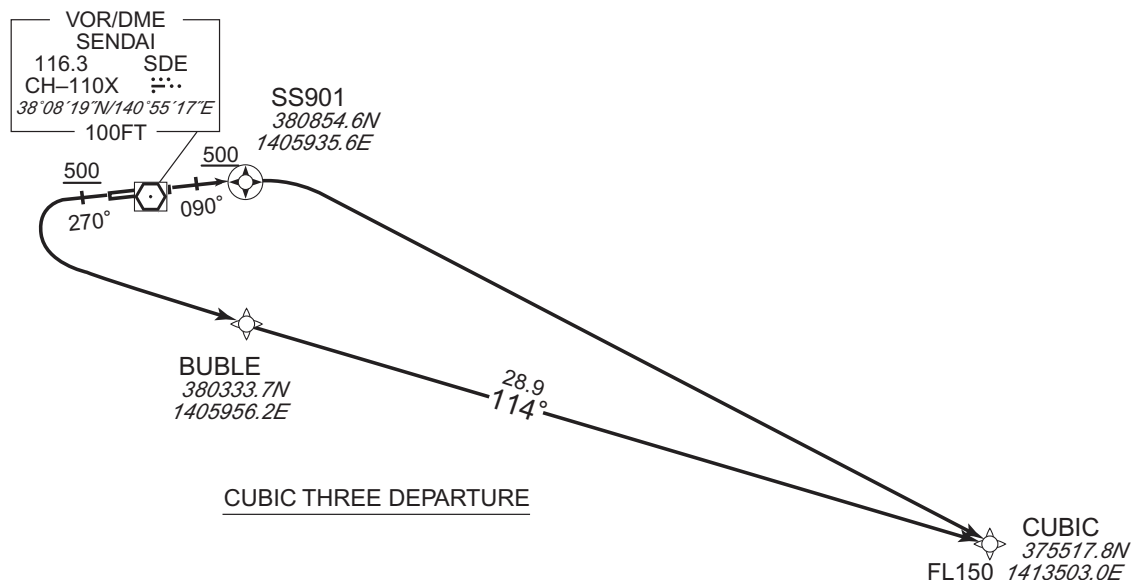
**DME GAP**

RWY09 09DER – 29.0NM to CUBIC  
RWY27 27DER – 4.0NM to BUBLE

**Inappropriate NavAids**

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

**VAR 8° W(2014)**

**CUBIC THREE DEPARTURE**

RWY09 : Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to CUBIC at or above FL150.

RWY27 : Climb on HDG270° at or above 500FT, turn left direct to BUBLE, to CUBIC at or above FL150.

**NOTE** RWY09: 5.0% climb gradient required up to 500FT.  
OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.  
RWY27: 5.0% climb gradient required up to 1000FT.  
OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

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## RWY09

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	—	—	090 (082.5)	-7.8	—	—	+500	—	—	RNAV1
002	DF	SS901	Y	—	-7.8	—	—	—	—	—	RNAV1
003	DF	CUBIC	—	—	-7.8	—	R	+FL150	—	—	RNAV1

## RWY27

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	—	—	270 (262.5)	-7.8	—	—	+500	—	—	RNAV1
002	DF	BUBLE	—	—	-7.8	—	L	—	—	—	RNAV1
003	TF	CUBIC	—	114 (106.5)	-7.8	28.9	—	+FL150	—	—	RNAV1

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RNAV TRANSITION

TOHOKU TRANSITION		RNAV 1
<div>Note</div> <div>1 ) DME/DME/IRU or GNSS required.</div> <div>2 ) RADAR service required.</div>	<div>Critical DME</div> <div>HPE : 45.0NM to SAITI - 39.0NM to SAITI</div> <div>UWE : 31.0NM to SAMBO - 24.0NM to SAMBO</div>	
<div>DME GAP</div> <div>—</div>		
<div>Inappropriate Nav aids</div> <div>See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.</div>		
<div>VAR 8° W(2019)</div> <div><p>SAMBO 401115.9N 1405701.4E</p><p>SAITI 392600.1N 1411511.1E</p><p>RIDER 381906.7N 1414117.5E</p><p>CUBIC 375517.8N 1413503.0E</p><p>FL150</p><p>TOHOKU TRANSITION</p><p>24.3 020°</p><p>35.1 310°</p><p>35.1 314°</p></div>		
<div>TOHOKU TRANSITION</div> <div>From CUBIC at or above FL150, to RIDER, to SAITI, to SAMBO.</div>		

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RJSS / SENDAI

RNAV TRANSITION

TOHOKU 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	CUBIC	—	—	-8.2	—	—	+FL150	—	—	RNAV1
002	TF	RIDER	—	020 (011.6)	-8.2	24.3	—	—	—	—	RNAV1
003	TF	SAITI	—	351 (343.2)	-8.2	70.0	—	—	—	—	RNAV1
004	TF	SAMBO	—	351 (343.0)	-8.2	47.4	—	—	—	—	RNAV1