STANDARD DEPARTURE CHART - INSTRUMENT
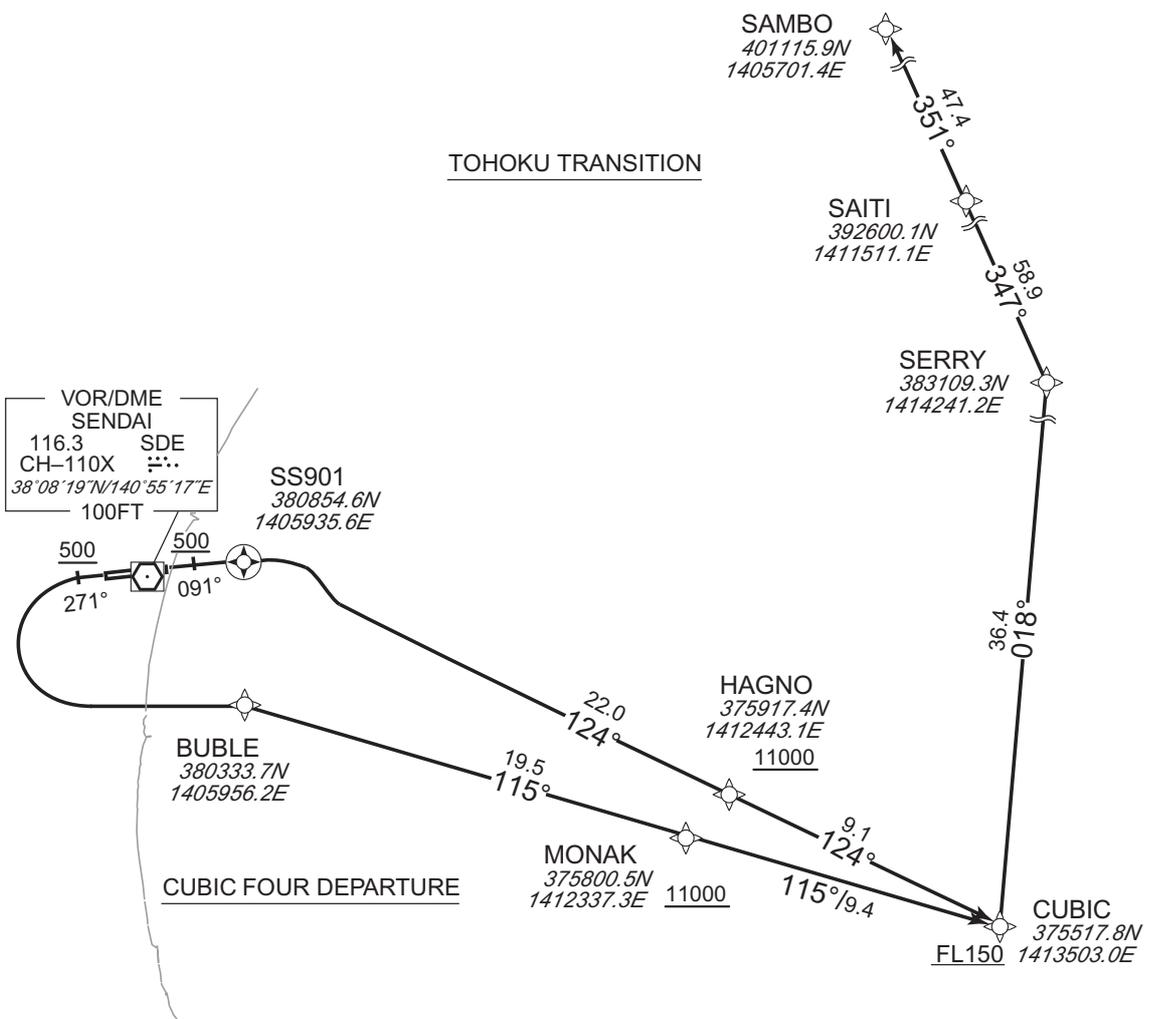
RJSS / SENDAI	RNAV SID and TRANSITION	
CUBIC FOUR DEPARTURE / TOHOKU TRANSITION		RNP1

Note GNSS required.

VAR 8°W

SAMBO
401115.9N
1405701.4E

TOHOKU TRANSITION

SAITI
392600.1N
1411511.1E

351° 47.4

347° 58.9

SERRY
383109.3N
1414241.2E

VOR/DME
SENDAI
116.3   SDE
CH–110X
38°08′19″N/140°55′17″E
100FT

SS901
380854.6N
1405935.6E

500   500
271°   091°

018° 36.4

HAGNO
375917.4N
1412443.1E
11000

22.0 124°

BUBLE
380333.7N
1405956.2E

19.5 115°

CUBIC FOUR DEPARTURE

MONAK
375800.5N
1412337.3E   11000

124° 9.1

115°/9.4

CUBIC
375517.8N
FL150   *1413503.0E*

CUBIC FOUR DEPARTURE

RWY09 : Climb on HDG091° at or above 500FT, direct to SS901, to HAGNO at or above 11000FT,
to CUBIC at or above FL150.

RWY27 : Climb on HDG271° at or above 500FT, turn left direct to BUBLE, to MONAK at or above
11000FT, to CUBIC at or above FL150.

NOTE RWY09: 5.0% climb gradient required up to 500FT.
OBST ALT 62FT located at 0.2NM 103° 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.

TOHOKU TRANSITION
From CUBIC at or above FL150, to SERRY, to SAITI, to SAMBO.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART - INSTRUMENT

RJSS / SENDAI   RNAV SID and TRANSITION

CUBIC FOUR DEPARTURE

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	-	-	091 (082.5)	-8.3	-	-	+500	-	-	RNP1
002	DF	SS901	Y	-	-8.3	-	-	-	-	-	RNP1
003	TF	HAGNO	-	124 (115.8)	-8.3	22.0	-	+11000	-	-	RNP1
004	TF	CUBIC	-	124 (116.1)	-8.3	9.1	-	+FL150	-	-	RNP1

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	-	-	271 (262.5)	-8.3	-	-	+500	-	-	RNP1
002	DF	BUBLE	-	-	-8.3	-	L	-	-	-	RNP1
003	TF	MONAK	-	115 (106.4)	-8.3	19.5	-	+11000	-	-	RNP1
004	TF	CUBIC	-	115 (106.7)	-8.3	9.4	-	+FL150	-	-	RNP1

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	-	-	-8.3	-	-	+FL150	-	-	RNP1
002	TF	SERRY	-	018 (009.5)	-8.3	36.4	-	-	-	-	RNP1
003	TF	SAITI	-	347 (338.8)	-8.3	58.9	-	-	-	-	RNP1
004	TF	SAMBO	-	351 (343.0)	-8.3	47.4	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).