

STANDARD ARRIVAL CHART
RNAV (GNSS) -
INSTRUMENT (STAR)

SINGAPORE/Singapore Changi
RWY 02L/C/R
KARTO TWO ALPHA ARRIVAL
KARTO 2A

ACC 134.2 APP 124.05 119.3 TWR 118.6 / 118.25	TRANSITION ALTITUDE 11 000ft	D-ATIS AP ID-WSSS 128.025
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ELEV, ALT IN FEET
BEARINGS, TRACKS AND
RADIALS ARE MAGNETIC
VAR 0°23'E (2020)

DISTANCES IN NM

TEKONG

DVOR/DME 116.5
VTK
01° 24' 55"N
104° 01' 20" E
60m

CAUTION
RWY 02R/20L NOT AVAILABLE FOR
CIVIL USE UNTIL FURTHER ADVISED

FOR APPROACH RWY 02
EXPECT RADAR VECTORS

SANAT

01° 07' 49" N
103° 59' 30" E
Cross 4000ft or abv
IAS 190kts

VIMAL

01° 09' 42" N
104° 23' 53" E
Cross 10000ft or abv

SAMKO

01° 05' 30" N
103° 52' 55" E

IGNON

01° 08' 47" N
104° 12' 57" E
Cross 7000ft or abv

KEXAS

01° 10' 19" N
104° 48' 18" E
Cross F160 or b/w
IAS 220kts

GUNUD

01° 10' 42" N
105° 06' 18" E
IAS 250kts

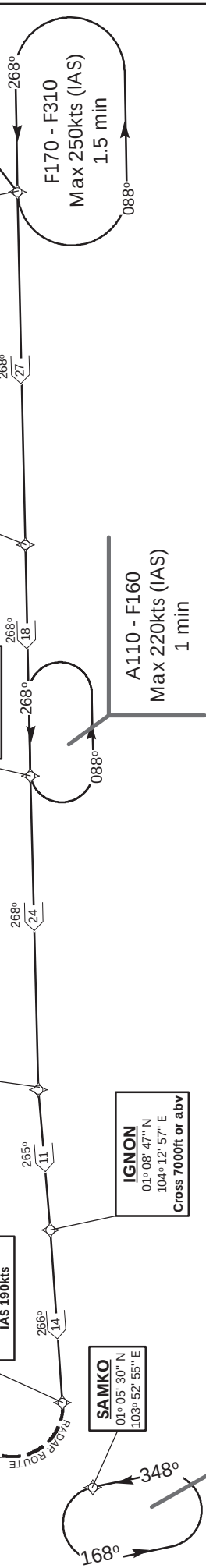
KARTO

01° 11' 24" N
105° 33' 43" E

TOMAN

01° 21' 47" N
105° 47' 17" E

RADAR ROUTE



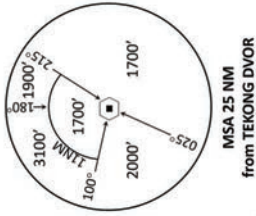
NOT TO SCALE

CAUTION: RWY 02R/20L NOT AVAILABLE FOR CIVIL USE UNTIL
FURTHER ADVISED

NOTE: RADAR REQUIRED

NOTE: RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED

NOTE: REFER TO BACK PAGE FOR
- FORMAL AND TABULAR DESCRIPTIONS
- RADIO COM FAILURE PROCEDURES



KARTO 2A (STAR) RNAV GNSS RWY 02L/02C/02R - DESCRIPTIONS

Formal & Abbreviated Descriptions

Formal Description	Abbreviated Description	Path Terminator	Fly-Over required
From TOMAN.	TOMAN -	IF	N
To KARTO, turn right.	KARTO [R] -	TF	N
To GUNUD, speed 250kts	GUNUD [K250] -	TF	N
To KEXAS at or below FL160, speed 220kts.	KEXAS [FL160-; K220] -	TF	N
To VIMAL at or above 10000ft, turn left.	VIMAL [A100+; L] -	TF	N
To IGNON at or above 7000ft, turn right.	IGNON [A070+; R] -	TF	N
To SANAT at or above 4000ft, speed 190kts.	SANAT [A040+; K190]	TF	N

Tabular Descriptions

Path Term	Waypoint Name	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude	Speed Limit	Navigation Spec
IF	TOMAN	-	-	-	-	-	-	RNAV1
TF	KARTO	-	232(232.4)	17.0	R	-	-	RNAV1
TF	GUNUD	-	268(268.4)	27.0	-	-	K250	RNAV1
TF	KEXAS	-	268(268.4)	18.0	-	FL160-	K220	RNAV1
TF	VIMAL	-	268(268.4)	24.0	L	A100+	-	RNAV1
TF	IGNON	-	265(265.4)	11.0	R	A070+	-	RNAV1
TF	SANAT	-	266(266.4)	14.0	-	A040+	K190	RNAV1

Radio Communications Failure Procedure

1	SET TRANSPONDER TO MODE A/C CODE 7600
2	When cleared via KARTO 2A by Singapore ATC (a) Maintain last assigned flight level or altitude and proceed on KARTO 2A to SANAT, then direct to SAMKO (b) From SAMKO commence descent and carry out appropriate landing procedure for RWY 02 as close as possible to EAT or ETA (c) If unable to effect a landing, refer to Singapore AIP for missed approach procedure
3	No clearance or instruction received from Singapore ATC - Refer to Singapore AIP for radio communications failure procedure