

STANDARD DEPARTURE CHART
RNAV (GNSS) -
INSTRUMENT (SID)

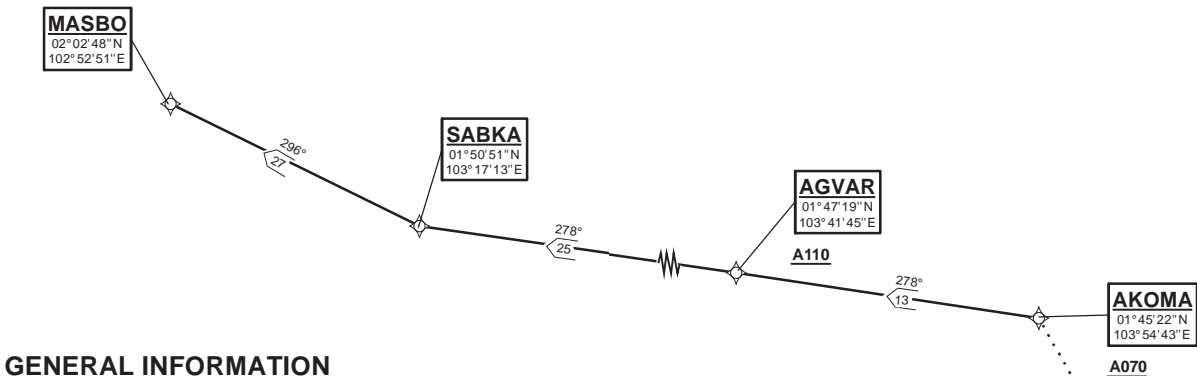
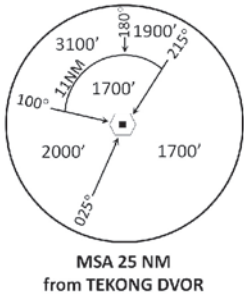
| | |
|-----|----------------|
| TWR | 118.6 / 118.25 |
| APP | 120.3 |
| | 124.05 |
| ACC | 133.25 |

| | |
|---------------------|---------------------|
| TRANSITION ALTITUDE | 11 000ft |
| D-ATIS | AP ID-WSSS 128.6 |

SINGAPORE/Singapore Changi
RWY 02R
MASBO DEPARTURES (RADAR)
MASBO 1C

ELEV, ALT IN FEET
BEARINGS, TRACKS AND
RADIALS ARE MAGNETIC
VAR 0°23'E (2020)

DISTANCES IN NM



GENERAL INFORMATION

INITIAL CLIMB
3000FT

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

- NOTE: RADAR REQUIRED
- NOTE: RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED
- NOTE: ACFT UNABLE TO FLY THE SID PROFILE
SHALL INFORM ATC PRIOR TO DEPARTURE AND
EXPECT RADAR VECTURING IF NECESSARY
- NOTE: WHEN TAKEN OFF THE SID, AS INSTRUCTED BY ATC,
REFER TO ENR 1.5, SECTION 3, PARAGRAPH 3.5
- FOR RWY 02R MINIMUM CLIMB GRADIENT
- NOTE: REFER TO BACK PAGE FOR
- FORMAL AND TABULAR DESCRIPTIONS
- RADIO COM FAILURE PROCEDURES

PROCEDURE INFORMATION

SID SHALL NOT EXCEED IAS 230KTS UNTIL
PASSING 4000FT AMSL AND NOT EXCEED
IAS 250KTS UNTIL PASSING 10000FT AMSL.

CRUISING LEVELS WILL BE ISSUED AFTER TAKE-OFF
BY SINGAPORE RADAR.

SID SHALL BE ON A MINIMUM CLIMB GRADIENT OF 5%
UNTIL REACHING OR PASSING 2500FT, THEREAFTER 3.3%.

| | | | | | | |
|-------------------|-----|-----|-----|------|------|------|
| GND SPEED - KNOTS | 75 | 100 | 150 | 200 | 250 | 300 |
| 5% V/V (fpm) | 380 | 506 | 760 | 1013 | 1266 | 1519 |
| 3.3% V/V (fpm) | 251 | 334 | 501 | 668 | 835 | 1003 |

EXPECT RADAR vectors
to waypoint AKOMA

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

DER(RWY 02R)
01°21'22"N
104°00'51"E

NOT TO SCALE

MASBO 1C (SID) RNAV GNSS RWY 02R - DESCRIPTIONS

Formal & Abbreviated Descriptions

| Formal Description | Abbreviated Description | Path Terminator | Fly-Over required |
|---|-------------------------|-----------------|-------------------|
| Climb heading 023°, Gradient 5% to 2500ft, thence 3.3%. Expect radar vectors to waypoint AKOMA. | - | VA | N |
| To AKOMA at or above 7000ft. | AKOMA [A070+] - | DF | N |
| To AGVAR at or above 11000ft. | AGVAR [A110+] - | TF | N |
| To SABKA, turn right. | SABKA [R] - | TF | N |
| To MASBO. | MASBO | TF | N |

Tabular Descriptions

| Path Term | Waypoint Name | Fly-Over | Course °M(°T) | Distance (NM) | Turn Direction | Altitude | Speed Limit | Navigation Spec |
|-----------|---------------|----------|---------------|---------------|----------------|----------|-------------|-----------------|
| VA | - | - | 023(023.4) | - | - | A030 | - | - |
| DF | AKOMA | - | - | - | - | A070+ | - | RNAV1 |
| TF | AGVAR | - | 278(278.4) | 13.0 | - | A110+ | - | RNAV1 |
| TF | SABKA | - | 278(278.4) | 25.0 | R | - | - | RNAV1 |
| TF | MASBO | - | 296(296.4) | 27.0 | - | - | - | RNAV1 |

Radio Communications Failure Procedure

| | |
|---|---|
| 1 | SET TRANSPONDER TO MODE A/C CODE 7600 |
| 2 | COMMUNICATIONS FAILURE OCCURS IMMEDIATELY AFTER DEPARTURE: PROCEED DIRECT TO NYLON HOLDING AREA (NHA) CLIMBING TO THE LAST ASSIGNED ALTITUDE, THEREAFTER REFER TO SINGAPORE AIP ON RADIO COMMUNICATIONS FAILURE PROCEDURE. |