

RJNK / KOMATSU

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID and TRANSITION

| MANAH TWO DEPARTURE | | RNAV1 |
|---|------------------------|--|
| 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 | RWY06 KMC, YME: 10NM to KAETU - 30NM to MANAH, 23NM to MANAH - 3NM to MANAH RWY24 KMC, YME: 23NM to MANAH - 3NM to MANAH |
| | DME GAP | RWY06 06DER - 10NM to KAETU 30NM to MANAH - 23NM to MANAH RWY24 24DER - 23NM to MANAH |
| | Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1 |

VAR 8° W(2014)

**MANAH TWO DEPARTURE**

RWY06 : Climb on HDG063° at or above 500FT, turn left direct to KAETU, to MANAH.

RWY24 : Climb on HDG243° at or above 500FT, direct to AWAZU, to MANAH.

NOTE RWY06 : 4.1% climb gradient required up to 3900FT.

OBST ALT 3215FT located at 13.0NM 200° FM end of RWY06.

RWY24 : 4.8% climb gradient required up to 3900FT.

OBST ALT 3215FT located at 12.0NM 195° FM end of RWY24.

KOMAKI TRANSITION

From MANAH to KCC.

CHANGE : Minor change

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID and TRANSITION

MANAH TWO DEPARTURE

RWY06

| 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 | — | — | 063 (055.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | KAETU | — | — | -7.7 | — | L | — | — | — | RNAV1 |
| 003 | TF | MANAH | — | 162 (154.3) | -7.7 | 32.9 | — | — | — | — | RNAV1 |

RWY24

| 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 | — | — | 243 (235.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | AWAZU | Y | — | -7.7 | — | — | — | — | — | RNAV1 |
| 003 | TF | MANAH | — | 162 (154.7) | -7.7 | 28.0 | — | — | — | — | RNAV1 |

KOMAKI 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 | MANAH | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | KCC | — | 162 (154.5) | -7.7 | 42.7 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT



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RNAV SID and TRANSITION

GINJO TWO DEPARTURE

RWY06

| 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 | — | — | 063 (055.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | HAKUI | — | — | -7.7 | — | L | — | — | — | RNAV1 |
| 003 | TF | GINJO | — | 014 (006.5) | -7.7 | 23.3 | — | — | — | — | RNAV1 |
| 004 | TF | NTE | — | 064 (056.0) | -7.7 | 15.0 | — | — | — | — | RNAV1 |

RWY24

| 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 | — | — | 243 (235.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | HAKUI | — | — | -7.7 | — | R | — | — | — | RNAV1 |
| 003 | TF | GINJO | — | 014 (006.5) | -7.7 | 23.3 | — | — | — | — | RNAV1 |
| 004 | TF | NTE | — | 064 (056.0) | -7.7 | 15.0 | — | — | — | — | RNAV1 |

KINZAN 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 | NTE | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | GOLDO | — | 063 (055.4) | -7.7 | 83.0 | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID

| SONBU TWO DEPARTURE | | RNAV1 |
|---|-----------------------|--|
| 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 | RWY06 YME: 30NM to SONBU - 6NM to SONBU RWY24 YME: 23NM to SONBU - 6NM to SONBU |
| | DME GAP | RWY06 06DER - 44.5NM to SONBU RWY24 24DER - 23NM to SONBU |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

VAR 8°W(2014)



SONBU TWO DEPARTURE

RWY06 : Climb on HDG063° at or above 500FT, turn left direct to SONBU.
 RWY24 : Climb on HDG243° at or above 500FT, turn right direct to SONBU.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID

SONBU TWO DEPARTURE

RWY06

| 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 | — | — | 063 (055.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SONBU | — | — | -7.7 | — | L | — | — | — | RNAV1 |

RWY24

| 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 | — | — | 243 (235.0) | -7.7 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | SONBU | — | — | -7.7 | — | R | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

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SID

NOTO TWO DEPARTURE

RWY06: Turn left,...

RWY24: Turn right,...

... climb via KMC R016 to intercept and proceed via NTE R244 to NTE VOR/DME.

Cross KMC R016/10.0DME at or below 7000FT, cross NTE R244/15.0DME at assigned altitude.



CHANGE : SID renamed

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

SID

MIYAZU FOUR DEPARTURE

RWY 06 : Turn left,...

RWY 24 : Turn right,...

...climb via KMC R286 to intercept and proceed via YME R040 to YME VOR/DME.

Cross KMC R286/10.0DME (YME R050) at or below 7000FT (*at 7000FT), cross YME R040/48.0DME (KMC R256) at assigned altitude.

*YME R050 MRA 7000FT

KOMATSU REVERSAL THREE DEPARTURE

RWY 06 : Turn left,...

RWY 24 : Turn right,...

...climb via KMC R351, turn left to intercept and proceed via KMC R331 to KMC VORTAC within KMC 30.0DME.

Cross KMC R351/8.0DME at or below 7000FT, cross KMC R331/10.0DME at assigned altitude.

KAGA FOUR DEPARTURE

RWY 06 : Turn left,...

RWY 24 : Turn right,...

...climb via KMC R331 to intercept and proceed via KMC 30.0DME counterclockwise ARC, turn right to intercept and proceed via KMC R261 to SAKYU.

Cross KMC R331/8.0DME at or below 7000FT, cross KMC R275 at assigned altitude.

CHANGE : SID renamed

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY06

KOMATSU WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

KOMATSU WEST ARRIVAL

From KMC, to SAWRA, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

| | |
|-----------------------|--|
| Critical DME | KMC : 6.9nm to SAWRA - 5.0nm to SAWRA KMC : 2.0nm to SAWRA - 5.0nm to MEGIS KMC : MEGIS - 3.0nm to KANOH YME : 6.9nm to SAWRA - 5.0nm to SAWRA YME : 2.0nm to SAWRA - 5.0nm to MEGIS YME : MEGIS - 3.0nm to KANOH |
| DME GAP | KMC - 6.9nm to SAWRA 5.0nm to SAWRA - 2.0nm to SAWRA 5.0nm to MEGIS - MEGIS 3.0nm to KANOH - DAIJO |
| Inappropriate Navaids | See AD1.1.6.10.3 Inappropriate NAVAIDS for RNAV1 |

| 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 | KMC | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | SAWRA | — | 300 (292.6) | -7.7 | 9.9 | — | — | — | — | RNAV1 |
| 003 | TF | MEGIS | — | 224 (216.5) | -7.7 | 8.3 | — | +4000 | — | — | RNAV1 |
| 004 | TF | KANOH | — | 183 (175.0) | -7.7 | 4.4 | — | — | — | — | RNAV1 |
| 005 | TF | DAIJO | — | 093 (084.9) | -7.7 | 4.3 | — | +2000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY06

HIMMY WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



HIMMY WEST ARRIVAL

From HIMMY, to BURRI at or above 8000FT, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

| | |
|------------------------|--|
| Critical DME | TOE : HIMMY - 11.0nm to BURRI TOE : 8.0nm to MEGIS - 7.0nm to MEGIS KMC : HIMMY - 30.0nm to BURRI KMC : 24.0nm to BURRI - 22.0nm to BURRI KMC : 17.0nm to BURRI - 15.0nm to BURRI KMC : 8.0nm to MEGIS - 7.0nm to MEGIS KMC : MEGIS - 3.0nm to KANOH YME : MEGIS - 3.0nm to KANOH |
| DME GAP | 7.0nm to MEGIS - MEGIS 3.0nm to KANOH - DAIJO |
| Inappropriate Nav aids | See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1 |

| 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 | HIMMY | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | BURRI | — | 248 (239.9) | -7.7 | 34.8 | — | +8000 | — | — | RNAV1 |
| 003 | TF | MEGIS | — | 224 (216.5) | -7.7 | 13.5 | — | +4000 | — | — | RNAV1 |
| 004 | TF | KANOH | — | 183 (175.0) | -7.7 | 4.4 | — | — | — | — | RNAV1 |
| 005 | TF | DAIJO | — | 093 (084.9) | -7.7 | 4.3 | — | +2000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY06

IMIZU WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)

**IMIZU WEST ARRIVAL**

From IMIZU, to JYOZO, to BURRI at or above 8000FT, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | TOE : IMIZU - 10.0nm to BURRI KMC : 4.0nm to JYOZO - JYOZO KMC : 24.0nm to BURRI - 22.0nm to BURRI KMC : 17.0nm to BURRI - 15.0nm to BURRI KMC : 7.0nm to MEGIS - 5.0nm to MEGIS KMC : MEGIS - 3.0nm to KANOH YME : 7.0nm to MEGIS - 5.0nm to MEGIS YME : MEGIS - 3.0nm to KANOH |
| DME GAP | 5.0nm to MEGIS - MEGIS 3.0nm to KANOH - DAIJO |
| Inappropriate Navaids | See AD1.1.6.10.3 Inappropriate NAVAIDS for RNAV1 |

| 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 | IMIZU | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | JYOZO | — | 293 (285.1) | -7.7 | 9.0 | — | — | — | — | RNAV1 |
| 003 | TF | BURRI | — | 248 (239.8) | -7.7 | 29.7 | — | +8000 | — | — | RNAV1 |
| 004 | TF | MEGIS | — | 224 (216.5) | -7.7 | 13.5 | — | +4000 | — | — | RNAV1 |
| 005 | TF | KANOH | — | 183 (175.0) | -7.7 | 4.4 | — | — | — | — | RNAV1 |
| 006 | TF | DAIJO | — | 093 (084.9) | -7.7 | 4.3 | — | +2000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY06

YARII WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



YARII WEST ARRIVAL

From YARII, to HESEN at or above 11000FT, to EIHEI at or above 6000FT, to DAIAN at or above 5000FT, to SAIKO at or above 3500FT, to DAIJO at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | KMC : 14.0nm to HESEN -EIHEI YME : HESEN-EIHEI |
| DME GAP | EIHEI - DAIJO |
| Inappropriate Navaids | See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1 |

| 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 | YARII | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | HESEN | — | 269 (261.6) | -7.7 | 31.7 | — | +11000 | — | — | RNAV1 |
| 003 | TF | EIHEI | — | 269 (261.3) | -7.7 | 9.4 | — | +6000 | — | — | RNAV1 |
| 004 | TF | DAIAN | — | 269 (261.1) | -7.7 | 5.7 | — | +5000 | — | — | RNAV1 |
| 005 | TF | SAIKO | — | 319 (311.3) | -7.7 | 5.7 | — | +3500 | — | — | RNAV1 |
| 006 | TF | DAIJO | — | 033 (024.9) | -7.7 | 4.3 | — | +2000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY06

SONBU WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)

SONBU WEST ARRIVAL

From SONBU, to KRAGE at or above 5000FT, to KOAJI at or above 3500FT, to DAIJO at or above 2000FT.

| | |
|-----------------------|--|
| Critical DME | KMC : SONBU - 8.0nm to KRAGE YME : SONBU - 8.0nm to KRAGE |
| DME GAP | 8.0nm to KRAGE - DAIJO |
| Inappropriate Navaids | See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1 |

| 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 | SONBU | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | KRAGE | — | 116 (108.5) | -7.7 | 16.2 | — | +5000 | — | — | RNAV1 |
| 003 | TF | KOAJI | — | 062 (054.7) | -7.7 | 10.0 | — | +3500 | — | — | RNAV1 |
| 004 | TF | DAIJO | — | 063 (054.8) | -7.7 | 8.3 | — | +2000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY24

KOMATSU EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



KOMATSU EAST ARRIVAL

From KMC, to YAMJI, to ZEBRA at or above 4000FT, to HIMRO at or above 2600FT.

| | |
|-----------------------|--|
| Critical DME | KMC : 6.6nm to YAMJI - YAMJI YME : 6.6nm to YAMJI - YAMJI |
| DME GAP | KMC - 6.6nm to YAMJI YAMJI - HIMRO |
| Inappropriate Navaids | See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1 |

| 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 | KMC | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | YAMJI | — | 360 (352.5) | -7.7 | 9.6 | — | — | — | — | RNAV1 |
| 003 | TF | ZEBRA | — | 080 (072.2) | -7.7 | 4.5 | — | +4000 | — | — | RNAV1 |
| 004 | TF | HIMRO | — | 083 (075.6) | -7.7 | 5.0 | — | +2600 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY24

HIMMY EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



HIMMY EAST ARRIVAL

From HIMMY, to GINRE at or above 7000FT, to KINKA at or above 5000FT.

| | |
|------------------------|--|
| Critical DME | TOE : HIMMY - GINRE TOE : 12.0nm to KINKA - 9.0nm to KINKA KMC : HIMMY - 7.0nm to GINRE KMC : 6.0nm to GINRE - 2.0nm to GINRE YME : 12.0nm to KINKA - 9.0nm to KINKA |
| DME GAP | GINRE - 12.0nm to KINKA 9.0nm to KINKA - KINKA |
| Inappropriate Nav aids | See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1 |

| 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 | HIMMY | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | GINRE | — | 178 (170.4) | -7.7 | 10.7 | — | +7000 | — | — | RNAV1 |
| 003 | TF | KINKA | — | 247 (239.1) | -7.7 | 12.7 | — | +5000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY24

IMIZU EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



IMIZU EAST ARRIVAL

From IMIZU, to GINRE at or above 7000FT, to KINKA at or above 5000FT.

| | |
|------------------------|---|
| Critical DME | TOE : IMIZU - GINRE TOE : 12.0nm to KINKA - 9.0nm to KINKA KMC : IMIZU - 2.0nm to GINRE YME : 12.0nm to KINKA - 9.0nm to KINKA |
| DME GAP | GINRE - 12.0nm to KINKA 9.0nm to KINKA - KINKA |
| Inappropriate Nav aids | See AD1.1.6.10.3 Inappropriate NAVAIDS for RNAV1 |

| 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 | IMIZU | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | GINRE | — | 211 (203.4) | -7.7 | 6.2 | — | +7000 | — | — | RNAV1 |
| 003 | TF | KINKA | — | 247 (239.1) | -7.7 | 12.7 | — | +5000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY24

YARII EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



YARII EAST ARRIVAL

From YARII, to HIDAH at or above 11000FT, to GINRE at or above 7000FT, to KINKA at or above 5000FT.

| | |
|------------------------|--|
| Critical DME | TOE : 8.0nm to HIDAH - 8.0nm to GINRE TOE : 1.0nm to GINRE - GINRE TOE : 12.0nm to KINKA - 9.0nm to KINKA KMC : 2.0nm to HIDAH - 8.0nm to GINRE YME : 1.0nm to GINRE - GINRE YME : 12.0nm to KINKA - 9.0nm to KINKA |
| DME GAP | 8.0nm to GINRE - 1.0nm to GINRE GINRE - 12.0nm to KINKA 9.0nm to KINKA - KINKA |
| Inappropriate Nav aids | See AD1.1.6.10.3 Inappropriate NAVAIDS for RNAV1 |

| 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 | YARII | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | HIDAH | — | 337 (329.5) | -7.7 | 16.7 | — | +11000 | — | — | RNAV1 |
| 003 | TF | GINRE | — | 337 (329.4) | -7.7 | 9.4 | — | +7000 | — | — | RNAV1 |
| 004 | TF | KINKA | — | 247 (239.1) | -7.7 | 12.7 | — | +5000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

RNAV STAR RWY24

SONBU EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8°W (2014)



SONBU EAST ARRIVAL

From SONBU, to BURRI at or above 8000FT, to ZEBRA at or above 4000FT, to HIMRO at or above 2600FT.

| | |
|------------------------|--|
| Critical DME | YME : SONBU - 8.0nm to BURRI KMC : 34.0nm to BURRI - 8.0nm to BURRI KMC : 7.0nm to BURRI - 5.0nm to BURRI KMC : BURRI - 7.0nm to ZEBRA KMC : 6.0nm to ZEBRA - 5.0nm to ZEBRA TOE : 7.0nm to BURRI - 5.0nm to BURRI TOE : BURRI - 7.0nm to ZEBRA TOE : 6.0nm to ZEBRA - 5.0nm to ZEBRA |
| DME GAP | 8.0nm to BURRI - 7.0nm to BURRI 5.0nm to ZEBRA - HIMRO |
| Inappropriate Nav aids | See AD1.1.6.10.3 Inappropriate NAVAIDS for RNAV1 |

| 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 | SONBU | — | — | -7.7 | — | — | — | — | — | RNAV1 |
| 002 | TF | BURRI | — | 066 (058.8) | -7.7 | 39.2 | — | +8000 | — | — | RNAV1 |
| 003 | TF | ZEBRA | — | 080 (072.1) | -7.7 | 9.6 | — | +4000 | — | — | RNAV1 |
| 004 | TF | HIMRO | — | 083 (075.6) | -7.7 | 5.0 | — | +2600 | — | — | RNAV1 |

INSTRUMENT APPROACH CHART

RJNK / KOMATSU

ILS Z or LOC Z RWY06



INSTRUMENT APPROACH CHART

RJNK / KOMATSU

ILS Y or LOC Y RWY06



INSTRUMENT APPROACH CHART

RJNK / KOMATSU

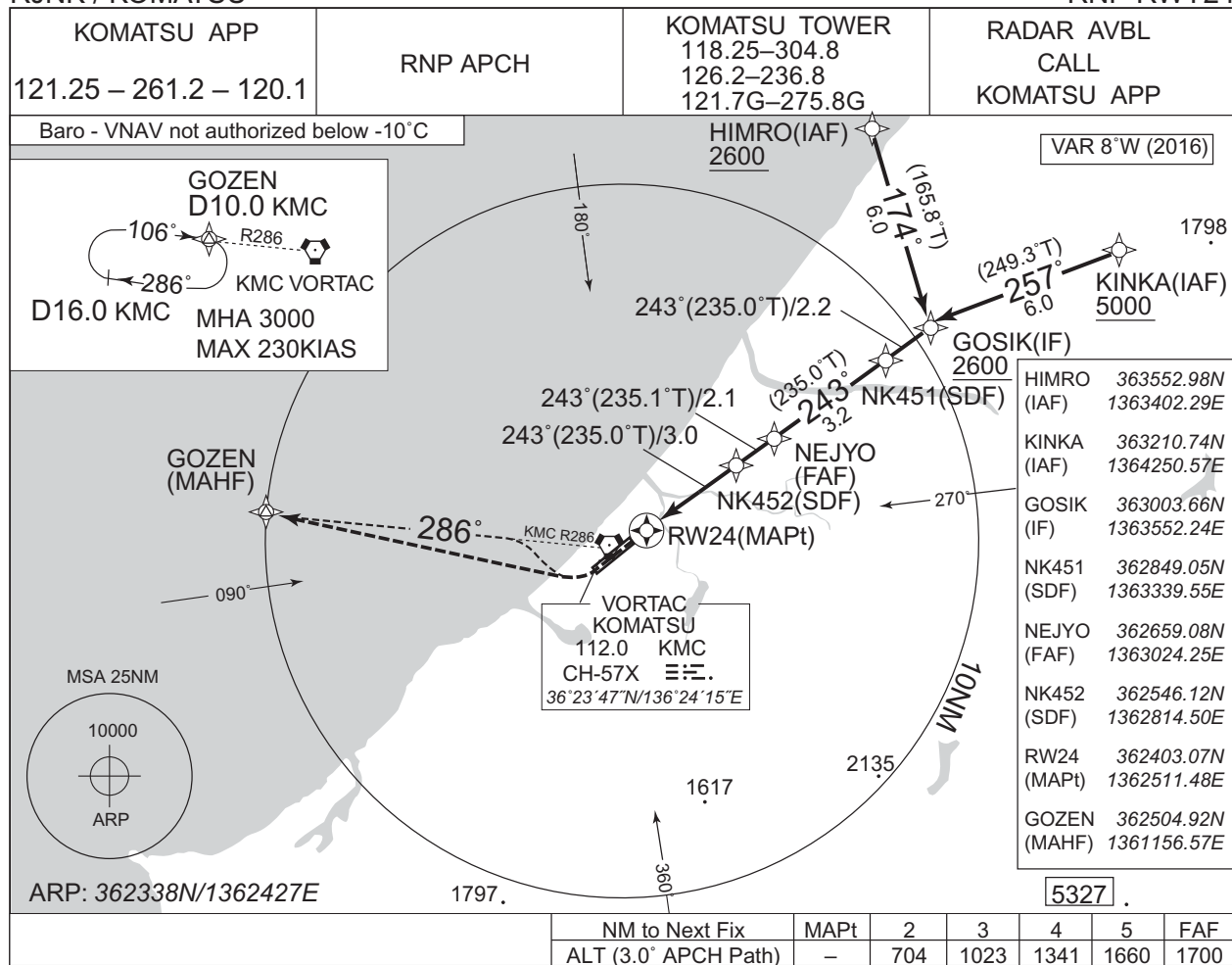
VOR RWY06



INSTRUMENT APPROACH CHART

RJNK / KOMATSU

RNP RWY24



MISSED APPROACH

Turn right, direct to GOZEN
and hold at 3000FT.
Contact KOMATSU APP.

(For using VORTAC)

Climb to 3000FT via KMC R286
to GOZEN and hold.
Contact KOMATSU APP.



MINIMA

THR elev. 18

AD elev. 22

| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
|-----|-----------|-------------|-----------|-------------|-----------|------|
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 420 (402) | 1200 | 420 (398) | 1200 | 510 (488) | 1600 |
| B | | 1300 | | 1300 | | |
| C | | 1400 | | 1400 | | |
| D | | 1600 | | 1600 | 580 (558) | 3200 |

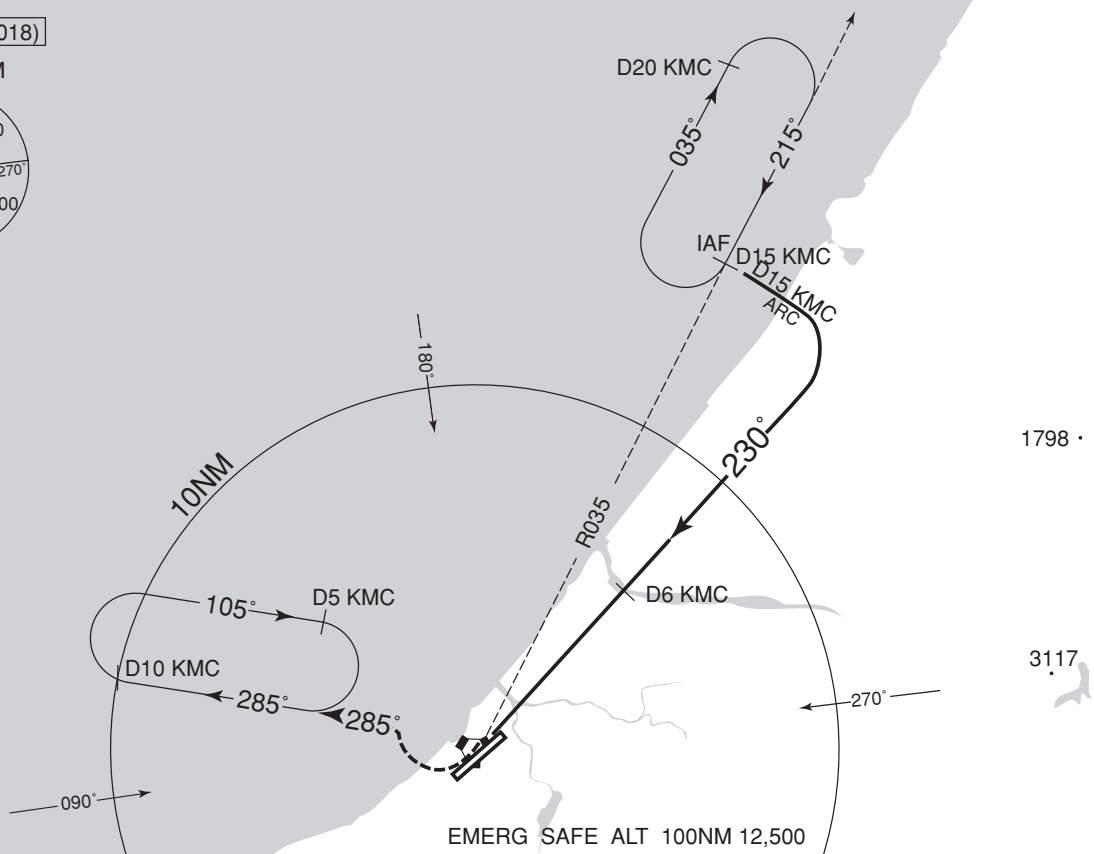
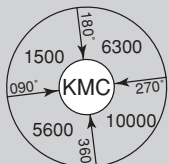
CHANGE:PROC renamed. Requirement for RNP.

RJNK / KOMATSU

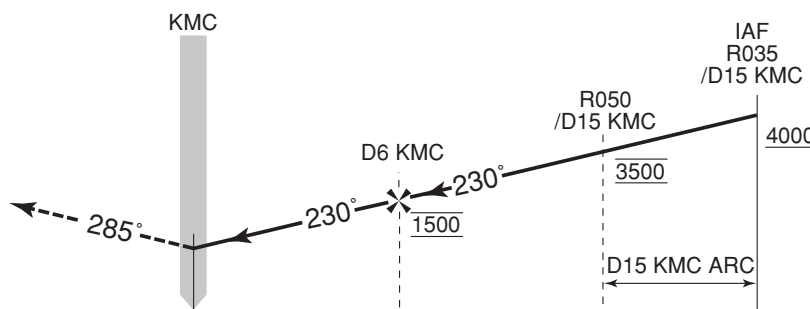
TACAN NR.1

VAR 8°W (2018)

MSA 25NM



At KMC TACAN, turn right,
climb via KMC R285 to
10DME fix to 2000FT and hold.
Contact KOMATSU APP.



| | | |
|--------|-----------|-------------|
| MINIMA | | AD elev. 22 |
| CAT | CIRCLING | |
| | MDA(H) | VIS |
| A | 510 (488) | 1600 |
| B | | |
| C | | 2400 |
| D | 580 (558) | 3200 |

CHANGE : VAR, MSA, MINIMA

RJNK / KOMATSU

KOMATSU APP
121.25 – 261.2 – 120.1

KOMATSU VORTAC
112.0 KMC 三三.
CH-57X
36°23'47"N/136°24'15"E

KOMATSU TOWER
118.25-304.8
126.2-236.8
121.7G-275.8G

RADAR AVBL
CALL
KOMATSU APP

VAR 8°W (2018)

MSA 25NM

IAF
R220/D15 KMC

5000

R234/D15 KMC

3500

D15 KMC ARC

054°

D6 KMC

1500

KMC

015°

MISSED APPROACH
At KMC TACAN, turn left, climb via KMC R015 to 10DME fix to 2000FT and hold. Contact KOMATSU APP.

| MINIMA | | THR elev. 38 | AD elev. 22 | |
|--------|-----------|--------------|-------------|------|
| CAT | | | CIRCLING | |
| | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 720 (698) | 1200 | 720 (698) | 1600 |
| B | | 1400 | | 2400 |
| C | | | | |
| D | | | | |

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJNK / KOMATSU

TACAN NR.4



MISSED APPROACH
 At KMC TACAN, turn left,
 climb via KMC R015 to 20DME
 fix to 3000FT and hold.
 Contact KOMATSU APP.

MINIMA

AD elev. 22

| CAT | CIRCLING | |
|-----|-----------|------|
| | MDA(H) | VIS |
| A | 540 (518) | 1600 |
| B | | 2400 |
| C | 580 (558) | 3200 |
| D | | |

CHANGE : VAR, MSA



注： 小松飛行場の本滑走路の供用開始に伴い、着陸する航空機は、運用を廃止した仮設滑走路に誤認着陸しないように注意すること。

Note: With an in-service start of this runway of Komatsu aerodrome, warn a landing aircraft not to land at the out-service temporary runway.

備考：1. 仮設滑走路には禁止標識が設置される（300m以内に1個標準）。

2. 航空機の到着機がある場合は、気象状態にかかわらず着陸滑走路の進入灯が常時点灯される。

3. 管制官からの着陸許可発出後に注意喚起のため、次の用語が通報される場合がある。

用語例：「VERIFY LANDING RUNWAY.」

Rem: 1. A closed marking is installed in a temporary runway (one less than 300m, standard).

2. When there is arrival aircraft, approach lights of a landing runway is always turned on regardless of a weather state.

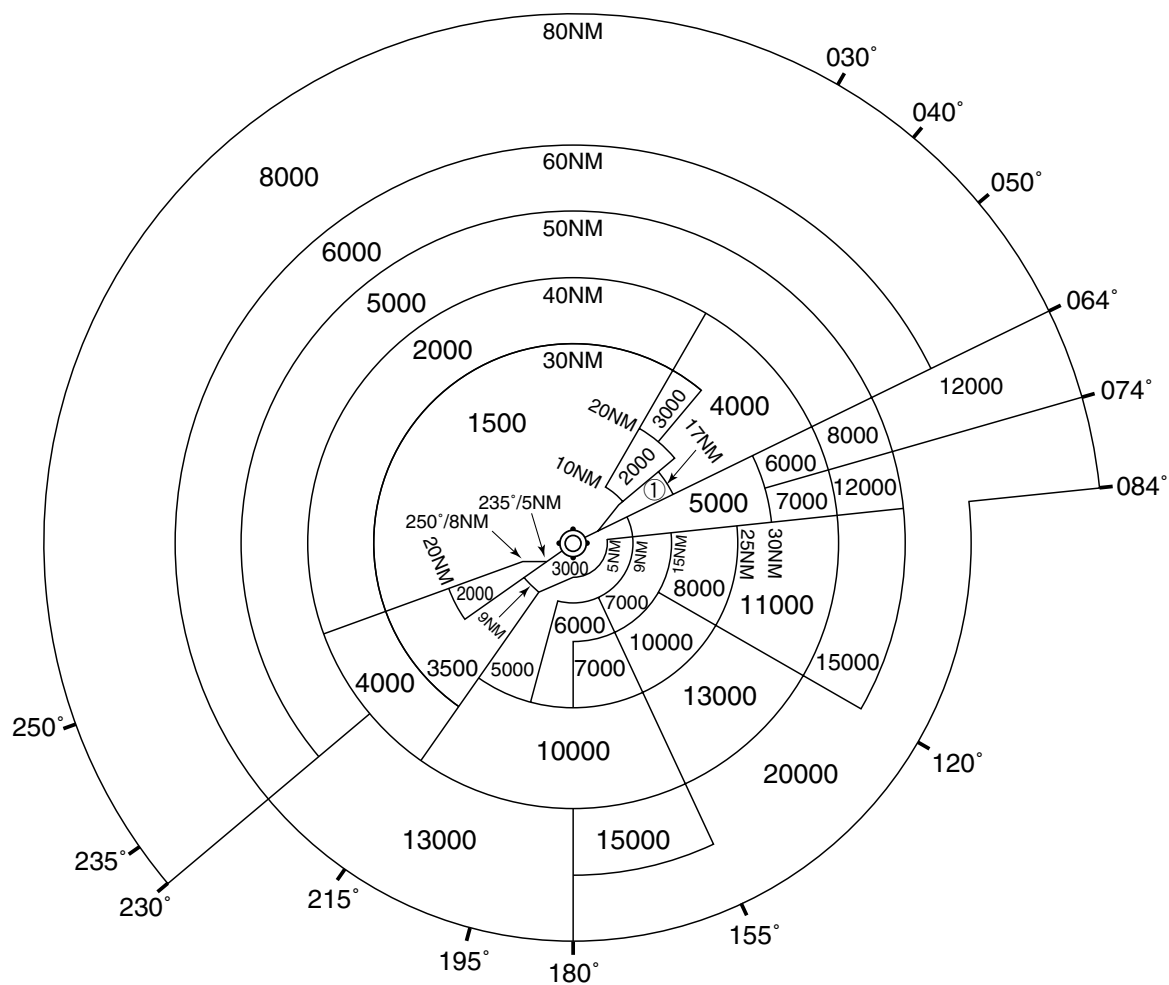
3. There is the case that the next term is reported to for attention awakening after a landing permission from a ATC.

A term example : 「VERIFY LANDING RUNWAY.」 .

RJNK / KOMATSU

Minimum Vectoring Altitude CHART

VAR 8°W (2009)



CENTER : 362322N/1362441E (RADAR SITE)

