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HOW TO PRINT OUT THIS GUIDE

Print odd pages first, then print even pages on back side of odd pages. Page 2 should start on back of page 1 and so on.

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G1000 Quick Reference Guide

Direct To:

(MFD) Direct To (D →)Btn (Button)

Spell IDENT

1. Small Knob (SmKb) Clockwise (CW) for 1st letter (let.)
2. Large Knob (Lgkb) for letter position
3. ENTER – Accepts
4. ENTER (Activates)– Returns to FLP with Dir. To

FPL, NRST, RECENT

- 1 Sm Kb CCW (Counter Clockwise) 1 click (Clk) – FPL Box
- 2 Sm Kb CW – **FPL, NEAREST, RECENT** pages
- 3 Lg Kb selects WPT (Way Point) on page

Note: SmKb now also selects WPT on page

ENTER – Accepts

ENTER –Activates and shows Dir. To in Active FPL

Fly To WPT via Selected Course Line to Intercept

1. Press CDI for GPS, then press OBS, rotate CRS SmKb for intercept heading inbound to WPT.
2. Fly to intercept Magenta line (Inbound heading to WPT)

Direct To using Nearest (PFD)

1. Press NRST soft key (PFD). Us SmKb CW to scroll list.
2. Press Dir. To Btn –ENTER (Accepts)
3. ENTER (Activates)

Create A New Flight Plan (FPL) on MFD

Push FPL Btn, (Shows Active FPL if any), Sm Kb CW 1 clk, FPL list

- 1 Push “New” soft key for 1st leg then SmKb CW 1 Clk
2. SmKb CW spells IDENT then Sm/LgKb to spell Ident. –ENTER or
3. SmKb CCW for FPL, NEAREST, RECENT, LgKb scrolls list
ENTER accepts selection, ENTER, (Leg inserted)
4. 2nd Leg: - Repeat steps above
5. 3rd Leg: Same as above
6. Push Sm Kb (FMS) when finished accepting legs entered.
7. Push CLR to return to Map page

VIEW Airport Info from FPL LIST

View Airport Diagram

1. See **EDIT FPL** page 2 steps 1 – 6
2. Lg Kb CW to select Airport
3. ENTER to select Airport Map Diagram, Press FIT WDTN
4. Push CHRT soft key to view NOS Airport diagram

Use Range Smkb to zoom up and down diagram

Airport Approach Plate (See steps 1-3 above)

1. Push APR soft key
2. Push Sm Kb (FMS) for highlight cursor
3. LgKb CW to scroll to Approach
4. SmKb CW to bring up all approaches box
5. SmKb CW to scroll to desired APR & ENTER
6. Push CHRT to view APR chart –
7. Hold CLR btn for 2 sec to return to Map page

FUEL RING Reserve Setting

1. Main Menu
2. Map Setup – ENTER
3. LgKb CW to select
4. SmKb ON/OFF
5. LgKb CW to time position
6. SmKb CW adjust Hrs
7. LgKb CW to minute position
8. SmKb to adjust minutes - ENTER
9. Push SmKb (FMS) to clear

TRACK Orientation

1. Menu Btn
2. Map Setup – ENTER
3. LgKb CW to select Orientation.
4. SmKb CW for:North Up/Track Up/DTK Up/HDG Up
5. Push SmKb to return to Map page.

Lat/Long Display Setting

1. (MFD) LgKb CW to Aux page
2. SmKb CW 3 Clks to page 4
3. Push SmKb (FMS) - Cursor On
4. LgKb CW to select Display Units – Position
5. SmKb CW set: HDDD°MM'SS.SS"
HDDD°MM.MM'
6. ENTER, then Push SmKb (FMS) to clear
7. Push Clr Btn for 2 sec to return to Map page or LgKb CCW to Map

PFD Nav Screen (Display)

1. Press INSET soft key –brings up Map screen
2. Press OFF soft key to remove Map screen

Display Nav1/Nav2/DME on PDF

1. Push PDF soft key on PFD
2. Push BR1 soft key tfor Nav1, again for GPS, again for ADF, again off
3. Push BR2 soft key for same as above.
4. Push DME soft key to display the DME for Nav2 above Nav1 box.
5. Push Back soft key to return PFD soft keys to default

Load Airport Radio Frequency

1. See **View FPL** this book page 2 steps 1 – 5, LgKb scrolls WPT's
2. ENTER, - Push SmKb (Cursor on), LgKb CW to scroll to and highlight desired Frequency
3. ENTER to load frequency into Standby Freq. Box
4. Push SmKb (FMS) to clear; CLR Btn 2 sec. for Map page.

Mark User WPT or Current Postion

1. Push Range SmKb
2. Move pointer to desired position with Range SmKb
3. ENTER selects user WPT name entry
4. SmKb/LgKb to spell name
5. ENTER accepts name
6. Push SmKb (FMS) for Cursor Off
7. Push Clr for 2 sec. to return to Map page

View FPL

1. Push FPL Btn and rotate SmKb (FMS) CW 1 Clk
2. Push SmKb (FMS, Cursor On) to high light 1st FPL in list.
3. Sm/LgKb CW to scrolls through FPL list
Note: Map screen on left shows WP's of FPL
4. ENTER (Accepts FPL to Activate/Edit), LgKb CW to Edit FPL
5. ENTER to Activate/Edit FPL, Edit views FPL legs

EDIT FPL (See View FPL steps 1-4 for Delete & Insert)

Delete a WPT in FPL

1. LgKb scrolls list for WPT selection
2. Press Clr btn to delete, LgKb CW (Ok/Cancel)
3. ENTER deletes
4. Push SmKb (FMS) to return to FPL list

Insert a new WPT in FPL (Inserts WPT above Cursor)

1. LgKb scrolls list of WPT's,
2. SmKb CW to Spell Ident
3. Sm/LgKb to spell Ident, ENTER accepts Ident and inserts WPT above cursor
4. SmKb CCW for FPL,RECENT,NRST,
5. LgKb scrolls list, SmKb CW fort FPL,RECENT,NRST.
6. ENTER accepts WPT; ENTER inserts it above cursor.
7. Push SmKb (FMS) to return to FPL list

Copy A FPL to an empty FPL Location

1. See EDIT FPL steps 1 – 3 to select a FPL to copy
2. Push Menu Btn scroll with Lg kb to Copy FPL
3. Copy FPL to first empty location OK/CANCEL
4. ENTER

Present Position (Lat/Long), View

1. Press Sm Range Kb, read Lat/Long or
2. LgKb(FMS) CW 2 Clks to AUX pg.
3. SmKb CW 2 Clks to GPS Status, page 3.
4. See POSITION, Clr for 2 sec. to return to Map page.

Rename FPL

Use **View FPL** page 2 steps 1 – 6, then

1. Lg btn (FMS) CCW 1 clk – move to FPL name
2. Sm kb CW to start rename with Sm/LgKb
3. ENTER accepts new name
4. Note: LgKb CW to FPL No., SmKb scrolls FPL list
5. Push Sm kb (FMS) to clear and see FPL list
6. Push Clr btn 2 Sec. returns to Map page

Create User WPT with Lat/Long on (MFD)

1. LgKb (FMS) CW to WPT page.
2. SmKb CW to page 5 (User WPT)
3. Push “New” Soft Key
4. Sm/LgKb to Edit Name, then ENTER
5. LgKb (FMS) CCW to Lat/Long
6. SmKb CW 1 Clk then Sm/LgKb to Lat/Long values
7. ENTER
8. Push SmKb (FMS) to Clear
9. Push CLR 2 sec to return to Map page.

Note: WPT category, page 5 will remain unless set back to pg 1

Edit User WPT Lat/Long

1. See Create User WPT steps 1&2
2. Push SmKb (FMS) to highlight Cursor on
3. SmKb/LgKb to Spell WPT Name then ENTER, or
4. LgKb (FMS) CW to scroll down to WPT list and select WPT
5. ENTER to high light WPT name
6. LgKb CW to scroll to Lat/Long position
7. Sm/Kb CW 1 Clk, Sm/Lg Kb to Edit,
8. Push SmKb to Clear cursor and save
9. Push CLR 2 sec to return to Map page.

Delete User WPT

1. See Edit User WPT above steps 1-2, LgKb CW to scroll to WPT
2. Push the CLR button to Delete (Yes/No)
3. ENTER - accepts
4. Push SmKb to Clear cursor and save
5. Push CLR for 2 seconds to return to Map page.

Sector Search Pattern (20 Sector)

Use CDI/OBS & CRS knob function to enter heading.

See article at www.34.alwg.us

Search and Rescue Flight Plans

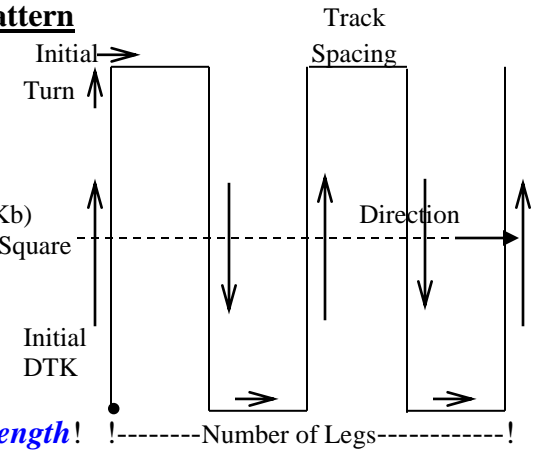
1. FLT Btn
2. Menu Btn
3. Search & Rescue Selection
4. ENTER

Parallel Track Search Pattern

1. Push FLP btn
2. Push Menu
3. ENTER

Search & Rescue Form

Waypoint (User Select LgSm Kb)
Pattern – Parallel, Sector, Exp. Square
Initial DTK (1 - 360°)
Initial Turn (Left/Right)
Leg Length (1.0 – 99.9nm)
Spacing (0.5 - 9.9nm)
Number of Legs (1 – 40)

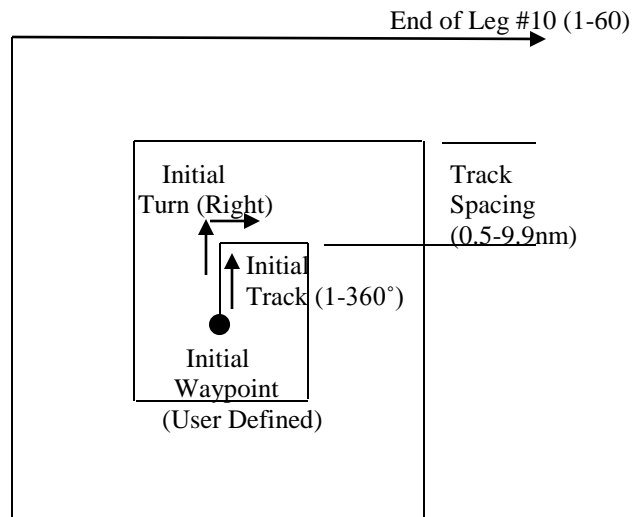


Note: Leg Length is full length!

Example:

1. **Waypoint** (Sm/Lg Kb User Select)
2. **ENTER – ENTER**
3. **Pattern:** SmKb CW ----(Parallel) -**ENTER**
4. **Initial DTK** – Sm/Lg Kb for selection (360°) -**ENTER**
5. **Initial Turn** – Sm/Lg Kb CW (Right) -**ENTER**
6. **Leg Length** – Sm/Lg Kb (5.0nm) - **ENTER**
7. **Spacing** – Sm/Lg Kb (0.5 – 9.9NM) - **ENTER**
8. **Number of Legs** – Sm/Lg Kb (5) - **ENTER**
9. **Activate SAR** - **ENTER**

Expanding Square Search Pattern



Search & Rescue Form

Waypoint: OKW (VOR) User Select - Lg/Sm Kbs
 Pattern -----Sector, Parallel, Exp. Sqr.
 Initial DTK -----1 - 360°
 Initial Turn -----Left/Right
 Spacing -----0.5 – 9.9nm
 Number of Legs -----1 - 60
 Activate SAR – Press ENTER
 SAR FPL created
 Note: 10 legs gives 5 nm last leg.

Creeping Line Search

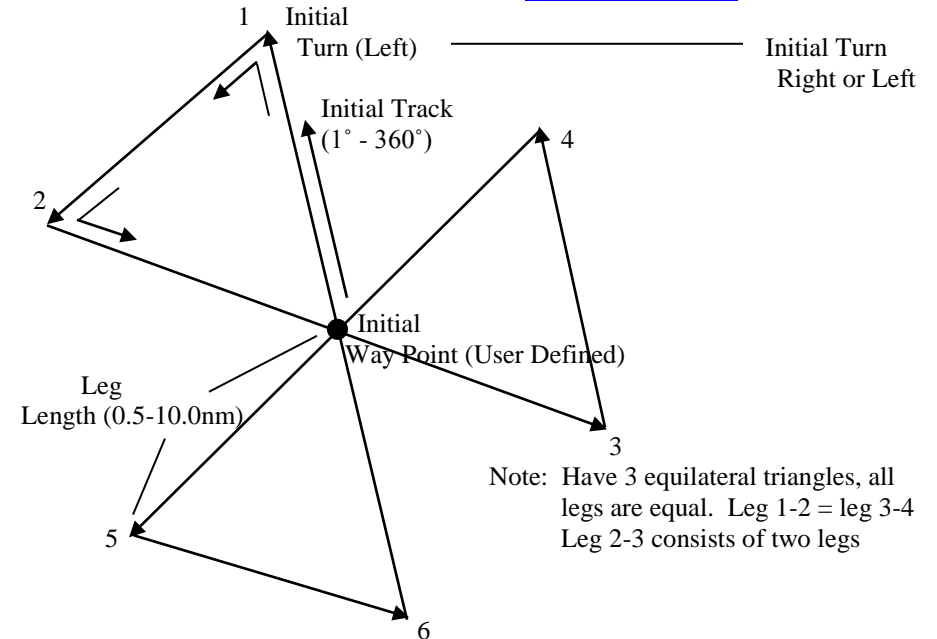
Note: Use a Parallel Search Pattern to simulate a Creeping line.
 See article at www.34.alwg.us

Route Search Pattern using 6 Route Lines

Note: Use a Parallel Search Pattern to simulate a 6 route search pattern.

Sector Track Search Pattern (6 Sector)

20 Sector Search Pattern See article at www.34.alwg.us



Sector Search Pattern - Example

OKW VOR initial waypoint. Initial track 340°,
 Leg length 3nm, Initial turn Left.

Search and Rescue Flight Plans

1. FLT Btn
2. Menu Btn
3. Search & Rescue Selection
4. ENTER

Search & Rescue Form

Waypoint: OKW (VOR) User Select - Lg/Sm Kbs
 Pattern -----Sector
 Initial DTK -----340°
 Initial Turn -----Left
 Leg Length -----3.0nm
 Activate SAR – Press ENTER
 SAR FPL created

Display FPL List

1. Push FPL Btn (MFD)
2. SmKb CW one Clk

View Timers

1. LgKb(FMS) 2CW to Aux pg.
2. SmKb 2CW to Utility
3. See Timers

Intercept GPS Radial to WPT

1. Set D →WPT (See D →)
2. Push CDI Btn for CDI GPS gauge
3. Push OBS Btn (PFD) to engage the OBS function of the CRS Kb
4. Rotate the CRS SmKb CW/CCW to select Radial No. to intercept & track inbound to WPT.
Note: Arrowhead of CDI selects radial inbound (Magenta Line)
Tail of arrow of CDI selects radial from WPT (White Line)
5. Pressing the CRS SmKb will automatically place the magenta line directly under the plane.

VOR Radial Selection “FROM”

1. Set Nav1/Nav2 to VOR freq. (Outer Arrowhead points to VOR) inner arrowhead (To/From indicator)
2. Rotate SmKb (CRM) until CDI needle centers. Tail of needle indicates Radial From VOR.

VOR Radial Interception TO/FROM

1. Set Nav1/Nav2 to VOR freq. (Outer Arrowhead points to VOR)
2. Push CDI Btn for VOR1/2
2. Rotate SmKb (CRM) until tail of CDI needle on desired No.

Track Inbound to VOR by given Course Line or Radial

1. Set D →VOR (Push D → Btn)
2. Select VOR name
3. LgKb (FMS) CW to select Course direction
4. Set Course direction inbound to VOR
5. ENTER (Activates); ENTER (return to Map page)

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Auto (Let FPL determine TOD)

1. See steps 1-3 above.
2. Lgkb CW to enter Alt; Sm/Lg Kb for Alt, ENTER (MSL),
3. ENTER to accept. (Clear Cursor).

Personal Settings before Flight (My Personal Settings)

1. Track Up see pg. 3
2. Lat/Long Display (HDD.MM.M) see pg 4.
3. Fuel Ring Reserve(1 hour) see pg 3.
4. Record Tachometer reading (MFD) before starting for flight log.
 - a. Before starting engine, turn on PFD, test sw. to Arm.
 - b. Push Engine button (PFD) then System button.
 - c. Record Eng. Hours.
5. Setting Fuel Quantities added to tanks before takeoff.
 - a. Push Engine, System, then Gal Rem.
 - b. If Filled to bottom of tab, push 64 Gal. If full 87 Gal .
 - c. For other amounts add or subtract to match fuel in tanks.

Radio Frequencies Copied to Standby Radio Frequency Box

1. See Edit FPL Pg. 2 steps 1 - 6
2. Scroll down to Airport of interest, ENTER
3. Push Sm FMS Kb to turn on cursor.
4. LgKb FMS Kb CW to select frequency desired.
5. Set Green Radio Freq. Box to desired location.
6. Press Enter to load frequency into Standby Radio Box.
7. For 2nd Freq. repeat steps 4-6.
Note: Comm SmKb pushed for desired radio, lft. rt. Arrow key selects standby of active Radio Freq.
8. Press and hold CLR btn for two seconds to return Map.

Setup (Initial)

1. Track Orientation: North Up, Track Up, DTK Up, Hdg Up
2. Lat/Long Units readout

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Direct To WPT (User Defined)

1. LgKb (FMS) CW to WPT
2. Push SmKb (FMS)
3. LgKb (FMS) CW to WPT needed
4. ENTER to select
5. Push Direct To Btn
6. ENTER to select
7. ENTER to accept
8. Push CLR btn for 2 sec. to return to map page

Lat/Long Display on MFD

1. Menu Btn, ENTER
2. SmKb CW to land, ENTER
3. SmKb CW to set MFD screen display Txt size, ENTER
4. SmKb CW to set Range value (Off – 2000nm). Lat/Long lines will only be displayed within range set. Larger Range set by Range Knob will not display Lat/Long lines.

View Lat/Long Grid Line

1. Push Menu Btn, ENTER
2. SmKb CCW for (Map,Wx,Traffic, Aviation, Airways, Land)
3. LgKb to Land, ENTER
4. SmKb Cw (Adjust Text size None, Sm, Med, Lg), ENTER
5. SmKb Cw (Adjust Range distance Off, 500ft – 2000nm)

Note: Grid only displays if range set below value entered for Range

VOT Test

1. Push Nav SmKb for Nav1
2. Set VOT frequency using Nav Sm/LgKb
3. Push Rt/Lft Nav arrow to select Nav1 freq
4. Push CDI button on PFD to select VOR1
5. Push PFD Btn (PDF) and display Nav1/2 on PDF
6. Push BRG1/BRG2 to display Nav's on PDF
7. Push Back Btn (PDF) for normal PDF screen
8. Rotate the CRS SmKb and set the OBS reading to 180
The inner CDI needle should center and the inner arrow head should move up toward and point to the outer needle arrow head indicating a "To" reading.
9. Rotate the CRS SmKb so that the OBS reads 360. The inner arrow head should point opposite to the outer arrow head (From) and the CDI needle should center.

VOR Test over a land mark WP

1. See VOT test steps 1-7
2. Navigate to and over a know Sectional WP about 3000 MSL.
3. Using VOR1 set to the usable VOR freq., rotate the CRS SmKb and position the tail of the needle to the radial the WPT is on. The CDI inner needle should center with the inner arrow head facing the tail of the needle

Vertical Nav(VPTH) Set Top of Descent (TOD) Point

Manual (You set TOD point in active FPL)

1. Push FPL Btn to View active FPL and leave displayed
2. Push SmKb (FMS) for Cursor On.
3. LgKb CW to WPT to descend down to.
4. Press ATK OFST button
5. SmKb CCW to enter descend distance from WPT; press ENTER.
6. Sm/Lg Kb to enter Alt ; press ENTER (Inserts TOD pt in FPL)
7. Also set descent Alt in MFD window (GFC700), or KAP140.
8. Push SmKb (FMS) to clear cursor.
9. Press VNV soft key on Autopilot (700) or
10. Set rate of descent on KAP140 when at TOD point.