INTRODUCTION

This Quick Reference Card is designed to introduce the pilot to the most commonly used G1000 procedures. Please refer to the Cockpit Reference Guide and the appropriate Pilot's Guides for a detailed system description.

BACKLIGHTING (PFD)

To manually adjust the backlighting for the display and keys on the PFD and MFD:

1. Turn the **Avionics** knob (for location please refer to the Approved Flight Manual) to adjust the avionics backlighting.
   Or

1. Press the **MENU** key on the PFD to display the PFD Setup Menu window.

> *NOTE: No other window can be displayed in the lower right corner of the PFD when the **MENU** key is pressed to change the backlighting.*

2. Turn the **large FMS** knob to highlight 'AUTO'.

3. Turn the **small FMS** knob to display the selection window.

4. Turn the **FMS** knob to select 'MANUAL', then press the **ENT** key. With the intensity value now highlighted, turn the **small FMS** knob to select the desired backlighting.

5. Turn the **large FMS** knob to highlight 'MFD DSPL' and repeat steps 2 through 5.

6. To adjust backlighting for the keys, turn the **large FMS** knob to highlight 'PFD DSPL' or 'MFD DSPL', then turn the **small FMS** knob to display 'PFD KEY' or 'MFD KEY'. Repeat steps 2 through 5. Press the **CLR** or **MENU** key to remove the window.

VSPEED BUG REFERENCES (PFD)

To change Vspeeds and turn the Vspeed bug ON or OFF:

1. Press the **TMR/REF** softkey, then turn the **large FMS** knob to highlight the Vspeed field to be changed.

2. Turn the **small FMS** knob to select the desired speed and press the **ENT** key (an asterisk appears next to the speed). The ON/OFF field is now highlighted.

3. To change each setting individually, turn the **small FMS** knob in the direction of the green arrowhead.

4. To change all Vspeeds simultaneously, press the **MENU** key and select 'All References On' or 'All References Off', then press the **ENT** key.

5. To restore all default speeds, press the **MENU** key, then select 'Restore Defaults' and press the **ENT** key. Press the **TMR/REF** softkey to remove the window. Vspeeds are also reset to default upon system power-off.

GENERIC TIMER (PFD)

To set the Generic Timer:

1. Press the **TMR/REF** softkey, then turn the **large FMS** knob to select the time field (hh/mm/ss). Turn the **FMS** knobs to set the desired time, then press the **ENT** key. The UP/DOWN field is now highlighted.

2. Turn the **small FMS** knob to display the UP/DOWN window. Turn the **FMS** knob to select 'UP' or 'DOWN', then press the **ENT** key. 'START?' is now highlighted.

3. Press the **ENT** key to START, STOP, or RESET the timer (if the timer is counting DOWN, it must be reset manually). Press the **CLR** key or the **TMR/REF** softkey to remove the window.

COM OPERATIONS (PFD & MFD)   `118.000 COM1`

To manually tune a COM frequency:

1. Turn the **large COM** knob to tune the MHz (left) portion. Turn the **small COM** knob to tune the kHz (right) portion.

To make the standby COM frequency the active COM frequency:

1. Press the **COM Frequency Toggle** key.

To switch the tuning box between the COM1 and COM2 frequency windows:

1. Press the **small COM** knob.

To quickly tune and activate the 121.500 emergency COM frequency:

1. Press and hold the **COM Frequency Toggle** key for approximately two seconds.

To adjust the COM volume and squelch:

1. Turn the **COM VOL/SQ** knob. Press this knob to turn the automatic squelch ON or OFF.

> *NOTE: If a stuck microphone occurs, transmission stops after 35 seconds.*

NAV OPERATIONS (PFD & MFD)   `NAV1 110.90`

To manually tune a NAV frequency:

1. Turn the **large NAV** knob to tune the MHz (left) portion. Turn the **small NAV** knob to tune the kHz (right) portion.

To make the standby NAV frequency the active NAV frequency:

1. Press the **NAV Frequency Toggle** key.

To switch the tuning box between NAV1 and NAV2 frequency windows:

1. Press the **small NAV** knob.

To adjust the NAV volume:

1. Turn the **NAV** knob.

To listen to and identify the Morse code:

1. Press the **VOL/PUSH ID** knob to toggle the Morse code identifier ON or OFF for the active NAV frequency next to which the tuning box is located.

ALTITUDE REFERENCE (PFD)   `3000`

To set the altitude reference bug:

1. Turn the **ALT** knobs to set the altitude reference bug. The **small ALT** knob sets the hundreds and the **large ALT** knob sets the thousands. This altitude also appears in the Altitude Reference box, above the altimeter.

> *NOTE: The altitude reference bug is not part of the autopilot altitude pre-select system and is used to aid the pilot in altitude control.*

BAROMETRIC PRESSURE (PFD)   `29.92IN`

To set barometric pressure:

1. Turn the **BARO** knob to select the barometric pressure setting.

TRANSPONDER CODE SELECTION (PFD)

To select the transponder code: `1200 STBY`

1. Press the **XPDR** softkey, then press the **CODE** softkey to enter the code, using the numbered softkeys.

2. Press the **VFR** softkey to enter the VFR code. Press the **BACK** softkey to return to the top level softkeys.

> *NOTE: Mode selection can either be automatic (Ground and Altitude modes) or manual (Standby, ON and Altitude modes). Refer to the Transponder Pilot's Guide.*

To manually select a transponder mode of operation:

1. Press the **XPDR** softkey, then press the appropriate softkey (**STBY, ON,** or **ALT**). Press the **BACK** softkey to return to the top level softkeys.

HEADING AND COURSE REFERENCE (PFD)

To set the heading bug: `HDG 090°`

1. Turn the **HDG** knob to position the bug to the desired heading, or push this knob to sync to the current heading.

To select a specific course: `CRS 010°`

1. Turn the **CRS** knob to select the desired course TO/FROM a waypoint.

NAVIGATION SOURCE (PFD)   `GPS`

To change between navigation sources:

1. Press the **CDI** softkey to select GPS (magenta), VOR1, VOR2, LOC1, or LOC2 (green).

To enable/disable OBS mode while navigating with GPS:

1. Press the **OBS** softkey. OBS is now displayed on the HSI. The pilot can turn the **CRS** knob to select the desired course TO the waypoint.

> *NOTE: GPS navigation to a given waypoint must be active for the OBS function to work.*

INSET MAP (PFD)   `INSET`

To display the inset map:

1. Press the **INSET** softkey.

To change the zoom scale:

1. Turn the **joystick** clockwise to increase or counterclockwise to decrease the scale.

To change declutter level:

1. Press the **INSET** softkey, then press the **DCLTR** softkey until the desired amount of detail is displayed.

To enable/disable traffic, topo, terrain, Stormscope (optional), NEXRAD (optional), or XM lightning (optional) data:

1. Press the **INSET** softkey, then press the **TRAFFIC, TOPO, TERRAIN, STRMSCP** (optional), **NEXRAD** (optional), or **XM LTNG** (optional) softkey.

To pan the map:

1. Push in the **joystick** momentarily to display the pointer, then move the **joystick** to pan the map. Push in the **joystick** again to cancel panning and return to your present position on the map.

To remove the inset map:

1. Press the **INSET** softkey, then press the **OFF** softkey.

NEAREST AIRPORTS (MFD)   NRST

To view airport information from the Nearest Airports Page:

1. Turn the **large FMS** knob to highlight the NRST Page group.

2. Press the **FMS** knob to activate the cursor.

3. Turn the **FMS** knob to select the desired airport.

To perform a direct-to from the Nearest Airports Page:

1. From the Nearest Airports Page, turn the **FMS** knob to highlight the desired airport, then press the **Direct-to** key. The Direct-to window appears.

2. Press the **ENT** key twice to activate.

To load a COM frequency from the Nearest Airports Page:

1. From the Nearest Airports Page turn the **FMS** knob to highlight the desired airport.

2. Press the **FREQ** softkey to place the cursor in the frequencies box.

3. Turn the **FMS** knob to select the desired frequency and press the **ENT** key. The frequency is placed in the standby field selected by the tuning box.

ENGINE INDICATION SYSTEM (EIS)

The Engine Indication System includes three pages. Press the appropriate softkey to display the following:

- Engine Page (**ENGINE**)
- Lean Page (**LEAN**)
- System Page (**SYSTEM**)

To monitor the desired cylinder(s):

1. From the LEAN page, press the **CYL SLCT** softkey to cycle through each cylinder.

To select the Assist function:

1. **Normally Aspirated** – From the LEAN page, press the **ASSIST** softkey to identify EGT peaks. The hottest cylinder is highlighted in cyan (light blue). When a cylinder peaks, that cylinder turns cyan and its peak is represented by a hollow bar on the EGT bar graph.

1a. **Turbo** – From the LEAN page press the **ASSIST** softkey to identify the turbine inlet temperature (TIT) peak. When the temperature peaks, the numeric readout appears below the TIT indicator and displays the difference between peak and current TIT in degrees Fahrenheit. If a peak is not displayed, underscores are shown until a peak is established. The TIT indicator does not graphically display peaks.

To reset the fuel-used totalizer to zero:

1. From the SYSTEM page, press the **RST USED** softkey. This resets the GAL USED to zero.

PAGE GROUPS (MFD)   `MAP WPT AUX NRST ▮ ☐ ☐ ☐`

There are four page groups. Various pages are contained in each group.

- **MAP** – Navigation Map, Traffic Map, Stormscope (optional), Weather Data Link (optional), Terrain Proximity
- **WPT** – Airport Information, Intersection Information, NDB Information, VOR Information, User WPT Information
- **AUX** – Trip Planning, Utility, GPS Status, System Setup, System Status, XM Radio (optional), XM Information (optional)
- **NRST** – Nearest Airports, Nearest Intersections, Nearest NDB, Nearest VOR, Nearest User WPT, Nearest Frequencies, Nearest Airspace

To select a specific page group and an individual page within the group:

1. Turn the **large FMS** knob to highlight the desired group, then turn the **small FMS** knob to select the desired page within the group.

To change the map scale:

1. Turn the **joystick** clockwise to increase or counter-clockwise to decrease the scale.

To pan the map:

1. Push in the **joystick** to display the panning arrow, then move the **joystick** in the desired direction. Push in the **joystick** again to remove the arrow.

To display traffic, topo, terrain, Stormscope (optional), NEXRAD (optional), or XM lightning (optional) data:

1. Press the **MAP** softkey, then press the **TRAFFIC**, **TOPO**, **TERRAIN, STRMSCP** (optional), **NEXRAD** (optional), or **XM LTNG** (optional) softkey.

NOTE: TIS displays traffic within 7 nm from 3000 ft below to 3500 ft above the requesting aircraft, including location, direction, altitude, and climb/descent information when in a TIS coverage area.

NOTE: Terrain tile colors represent the following: Red (critical) – Land elevation is within 100 ft of aircraft current altitude or above. Yellow (caution) – Land elevation is between 100 ft to 1000 ft below aircraft altitude. Black – Land elevation greater than 1000 ft below aircraft altitude.

To declutter the map:

1. Press the **DCLTR** softkey until the desired detail is displayed.

To change the map orientation:

1. From the Navigation Map Page, press the **MENU** key. Highlight 'Map Setup' and press the **ENT** key. The group field is now highlighted.

2. Turn the **small FMS** knob to select 'Map' and press the **ENT** key. The orientation field is now highlighted.

3. Turn the **small FMS** knob to display the options window.

4. Turn the **FMS** knob to select the desired orientation, then press the **ENT** key. Press the **FMS** knob to remove the Map Setup window.

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*NOTE: The Navigation Map Page can be selected from any page by pressing and holding the **CLR** key for 2 seconds.*

DIRECT-TO NAVIGATION (PFD & MFD) ⇾

To select a direct-to destination by identifier, facility name, or city:

1. Press the **Direct-to** key, then turn the **large FMS** knob to highlight the desired field.

2. Turn the **FMS** knob to enter the desired location and press the **ENT** key to confirm.

To select a direct-to destination from an active flight plan:

1. Press the **Direct-to** key, then turn the **large FMS** knob to highlight the FPL field.

2. Turn the **small FMS** knob to display all the waypoints in the active flight plan. Turn the **FMS** knob to select the desired waypoint, then press the **ENT** key twice to activate.

To select a direct-to destination from the Navigation Map Page:

1. From the Navigation Map Page on the MFD, press the **joystick** to display the pointer.

2. Place the pointer on the desired waypoint and press the **Direct-to** key. Press the **ENT** key twice to accept and activate.

To cancel a direct-to:

1. Press the **Direct-to** key, then press the **MENU** key. 'Cancel Direct-to NAV' is now highlighted.

2. Press the **ENT** key.

To manually define the direct-to course:

1. Press the **Direct-to** key. Turn the **FMS** knob to select the destination waypoint, then press the **ENT** key.

2. Turn the **large FMS** knob to highlight the CRS field. Turn the **FMS** knob to select the desired course and press the **ENT** key twice to activate.

FLIGHT PLANS (MFD) ⌐KIXD
       ↳KMCI

To create a flight plan:

1. Press the **FPL** key, then press the **FMS** knob to highlight the waypoint field.

2. Turn the **FMS** knob to enter the identifier of the departure airport and press the **ENT** key.

3. Repeat step 2 to enter each additional flight plan waypoint. Once all waypoints have been entered, press the **small FMS** knob to remove the cursor. The flight plan is automatically activated.

To activate an existing flight plan:

1. Press the **FPL** key and turn the **small FMS** knob to display the Flight Plan Catalog Page. Push the **FMS** knob to activate the cursor.

2. Turn the **small or large FMS** knob to highlight the desired flight plan and press the **ACTIVE** softkey. A confirmation window appears with 'OK' highlighted. Press the **ENT** key to accept.

*NOTE: A departure, an arrival and an approach can be loaded into a direct-to or active flight plan by pressing the **PROC** or **MENU** key.*

To select a departure for the departure airport:

1. From the Active Flight Plan Page, press the **LD DP** softkey. Turn the **FMS** knob to select the desired departure, then press the **ENT** key.

2. A window may appear listing runways for the departure. Turn the **FMS** knob to select the desired runway, then press the **ENT** key. The transition window is now displayed.

NOTE: This runway window is not displayed for every departure.

3. Turn the **FMS** knob to select the desired transition and press the **ENT** key. 'LOAD' is now highlighted. Press the **ENT** key.

To select an arrival for a direct-to or flight plan destination airport:

1. From the Active Flight Plan Page, press the **LD STAR** softkey. Turn the **FMS** knob to select the desired arrival, then press the **ENT** key.

2. Turn the **FMS** knob to select the desired transition and press the **ENT** key.

3. A window may appear listing runways for the arrival. Turn the **FMS** knob to select the desired runway, then press the **ENT** key. 'LOAD' is now highlighted. Press the **ENT** key.

NOTE: This runway window is not displayed for every arrival.

To select an approach for a direct-to or flight plan destination airport:

1. From the Active Flight Plan Page, press the **LD APR** softkey. Turn the **FMS** knob to select the desired approach, then press the **ENT** key.

2. Turn the **FMS** knob to select the desired transition and press the **ENT** key.

3. Turn the **large FMS** knob to highlight 'LOAD?' or 'ACTIVATE?' and press the **ENT** key.

NOTE: 'LOAD' adds the departure, arrival or approach to the flight plan. 'ACTIVATE' loads and activates the departure, arrival or approach.

To activate an approach from a direct-to or active flight plan:

1. From the Active Flight Plan Page, press the **PROC** key.

2. Turn the **large FMS** knob to highlight 'Activate Approach' and press the **ENT** key.

To remove a departure, an arrival, or an approach:

1. From the Active Flight Plan Page, press the **MENU** key.

2. Turn the **FMS** knob to highlight 'Remove Departure', 'Remove Arrival', or 'Remove Approach' and press the **ENT** key. A confirmation window appears. 'OK' is now highlighted.

3. Press the **ENT** key or turn the **large FMS** knob to select 'CANCEL' and press the **ENT** key.

To edit a stored or active flight plan:

1. Press the **FPL** key, then turn the **small FMS** knob to display the Flight Plan Catalog Page. Push the **FMS** knob to activate the cursor.

2. Turn the **large FMS** knob to select the desired flight plan, then press the **ENT** key.

   Or

1. From the Active Flight Plan Page, press the **FMS** knob to activate the cursor.

2. To add a waypoint, turn the **large FMS** knob to select the point where the new waypoint is to be added. (if an existing waypoint is highlighted, the new waypoint is placed directly in front of this waypoint). Turn the **FMS** knobs to enter the identifier of the new waypoint, then press the **ENT** key.

3. To delete a waypoint, turn the **large FMS** knob to select the waypoint to be deleted and press the **CLR** key to display a 'remove waypoint' confirmation window. With 'OK' highlighted, press the **ENT** key to remove the waypoint.

4. Once all changes have been made, press the **small FMS** knob to either return to the Flight Plan Catalog Page or remove the Active Flight Plan Page.

To stop navigating a flight plan:

1. From the Active Flight Plan Page, press the **MENU** key.

2. Turn the **FMS** knob to highlight 'Delete Flight Plan' and press the **ENT** key. A confirmation window appears. 'OK' is now highlighted.

3. Press the **ENT** key or turn the **large FMS** knob to select 'CANCEL' and press the **ENT** key.

4. Press the **FPL** key to remove the Active Flight Plan window.

MISSED APPROACH (PFD)   9000

To execute a missed approach:

> *NOTE: For GPS approaches only. As the missed approach point is crossed, **'SUSP'** appears on the HSI and above the softkey, indicating that automatic sequencing of approach waypoints is suspended at the MAP.*

1. Follow the initial climb instructions on the approach plate. When ready to proceed to the first point in the missed approach procedure, press the **SUSP** softkey to resume automatic sequencing.

2. A message appears in the Navigation Status bar on the PFD, offering a recommended entry procedure for a holding pattern ('HOLD DIRECT', 'HOLD PAR-ALLEL', or 'HOLD TEARDROP'). Course guidance is provided on the inbound leg of the holding pattern not on the outbound leg.

3. When leaving the holding pattern to re-fly the approach (or another approach), press the **PROC** key to 'Select Approach' or 'Activate Approach' (or add another destination to the flight plan).

> *CAUTION: The G1000 is designed to complement the printed approach plates and vastly improve situational awareness throughout the approach. The approach must be flown as it appears on the approach chart.*

> *CAUTION: When the message "RAIM is not available" appears in the Alerts window on the PFD, a missed approach must be executed.*