

## VH-OKY AVIONICS QUICKGUIDE- BASIC VFR

VH-OKY is now equipped with dual GI275 for Primary Flight Displays (ADI and HSI), GTN650Xi Com1/Nav1/Gps1, GNX375 Gps2/Transponder, GTR205 Com2, GMA340 Audio Panel (same as before) and GFC500 Autopilot. It also has a separate back-Up battery for GTN650Xi and the two GI275 have built in Back-Up batteries.

- **Do not Touch the two GI275 screens** – It is not needed for normal VFR operations (except CDI selection as described further down in this doc on page 4)
- **Only rotate and/or push the knobs** – DON'T try and lever UP/DOWN
- **Know** how to use GMA340 Audio panel Selectors to Receive AND transmit on Com1/Com2
- **Know** how to use GTN650 Com1
- **Know** how to use GTR205 Com2
- **Know** how to use GNX375 transponder
- **Know** how to Engage/Disengage/Turnoff the GFC500 Autopilot

### Step 1

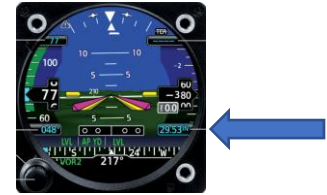
- Battery ON will start the two GI275 and do self-test of the Attitude Heading Reference System (AHRS)
- WAIT until the red crosses disappear in the ADI and HSI
- Start Engine carefully, after start check Alternator ON and rate of charge (>10 Amp)
- Radio Master ON
- Stand by Battery ON

### GTN650Xi



- Touch "Continue" when prompted (twice) then select Com1 by pushing Right Knob
- Tune Com1 by turning Right Knobs (inner and outer) Be aware pushing knob cycles between Com and Nav frequency (Alternative: touch the "STBY" field and a numeric keypad will be displayed for entering the frequency, Touch "Enter" to load the new frequency in STBY)
- Toggle Active/Standby by touching Top Right of screen ("COM" field)
- Press "VOL" on Top left Knob to check Squelch & rotate knob for volume

## GI275 (ADI & HSI)



- Use Outer(small) knob on GI275 **ADI** (upper GI275) to set QNH in ADI
- Select preferred GI275 **HSI** (lower GI275) display by turning outer (big) knob (HSI or HSI Map)\*
- Use HDG knob on GFC500 Autopilot interface to set HDG Bug

\*has 3 displays: ADI, HSI, HSI with Map



## GMA340 (Same unit as before)

- Ensure Com1 is selected to Receive and Transmit by pressing the Buttons and confirming green lights
- Ensure you know how to switch to com2 to Receive and Transmit
- Please note rotating the knobs on the GMA340 panel adjust Volume (inner) and Squelch (outer) for the Intercom only – not either radio.

## GTR205



- Tune Com2 by turning Right Knobs (inner and outer)
- Move tuned frequency from STBY to COM by pressing ↑ Button
- Press left knob for squelch and rotate for volume

## GNX375

### Home screen

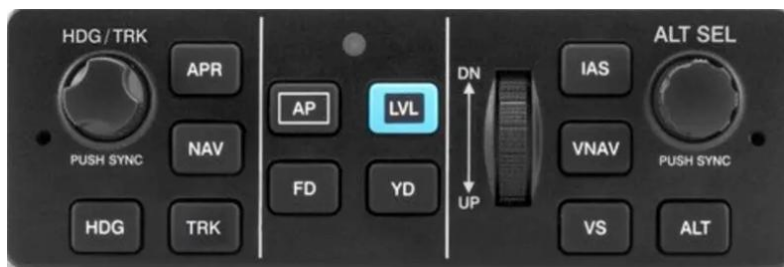


- Touch “Continue” when prompted (twice)
- To manage transponder, touch XPDR field to bring up window to set code and select ALT mode
- Touch “Enter” to confirm choices. Verify on Home screen that code/mode is correct



## GFC500 Autopilot

- Autopilot self-test when Avionics Master is turned On – Confirm no red flags saying PIT or ROL or AFCS or AP with a red cross through it on GI275 ADI
- Autopilot interface layout;
  - Left side: Roll Modes - HDG and NAV (TRK / APR for IFR only)
  - Center section: FD and AP “Engage” functions (toggle ON/OFF)
  - Right side: Pitch Modes i.e. VS /IAS and ALT



There are four ways to **Disengage the Autopilot**:

1. Press the **Red Button on the yoke**
2. Press **Electric trim Switch (on yoke) up or down**
3. Press **“AP” button on the Autopilot controller**
4. Pull Autopilot **Circuit Breaker** – see circuit breaker panel in copilot side

### **Basic Autopilot Operation in Flight**

**Do NOT START by pressing “AP” button.** Begin by setting Heading bug on present heading (use AP “HDG/TRK” knob to set present heading) then press “HDG” and “ALT” buttons. Selecting these modes will activate Flight Director (FD) command bar (Magenta Chevron) in GI275ADI and also show the AP modes selected in green in the AP bar in the lower part of GI275ADI. Only if the FD command bar suggest the desired flight path, then engage the autopilot by pressing the “AP” button and monitor closely.

**DO NOT** overpower the Autopilot by forcing the Yoke – disconnect instead (The trim will operate in the direction opposing the overpower force, which will result in large out-of-trim forces)

“**LVL**” button when pressed will bring the aircraft to straight and level flight from any upset situation.

### **Use GPS to Navigate from the present position direct-to a new waypoint**

1. PRESS the **D** button on the GTN650Xi bezel. The Direct-To window appears, with the Waypoint tab active.

2. Touch Select Waypoint

3. Touch the letters and numbers to enter the name in the Waypoint Identifier window. Or use the Large and Small knobs to move the cursor, and select letters and numbers.

4. Touch “Enter”, and review the waypoint name and details.

The full waypoint name appears with bearing and distance information.

If you made a mistake and need to re-enter the waypoint, touch the waypoint name again and follow the procedure above, or touch “Cancel” and start over.

5. If the waypoint is correct, touch the “Activate” control in the lower-right of the display

The Map page appears with a magenta line drawn from your present position to the waypoint you chose.

6. For CDI information on the GI275 HSI ensure GPS1 is selected – Touch “CDI” field in bottom of HSI to toggle to GPS1



(2)



(3)



(5)



(6)

## Shutting Down

- Stand-By Battery OFF
- Radio Master OFF
- Mixture ICO
- Magnetos OFF
- Battery OFF