

Capt'n Bill 03-2026

Quick Peak Work Sheet for Onboard Collins WX Radar in **Manual Mode**

Have the Radar Card Available for use

Review the proper Prog Chart for the wx systems big picture

Review the Graphical Turbulence Guidance chart for CAT

Review the lifted index Chart for air stability at 18,000'

Set up the Radar for Departure, Tilt up 8 and 20 nm range

Make sure the Gain knob is in the calibrated position

If Weather is in the departure area turn the radar on and scan for possible route changes on climb out.

Correlate the Nexrad Range with the Radar Range to confirm no shadows

With wx returns on the screen reduce gain 3 clicks to remove the level 1 and 2 weathers then navigate upwind in the black around the remaining weather returns if possible.

ALWAYS RETURN BACK TO THE CALIBRATED GAIN POSITION.

On Climb out thru 8000' leave the tilt at plus 8 and reduce the gain 2 or 3 clicks to remove

The screen to black and then back to Calibrated gain each time

As you pass thru 10000' tilt down to 4 deg and at 15000' set to Zero deg tilt.

Use the Tilt X Range formula to keep the Center of the Beam at 15000' on the target.

The Radar Card has the Tilts and Cell Clearances

Use the High-Altitude Tilt Chart to Center the beam at 15000'

Use the Nexrad to support the Radar

When outside the Tactical range of 40 NM use the Strategic Tilt on the Back of the card

On Descent thru 8000' heading for the Approach, **set the tilt to 8 deg** and use the Range and Gain control to navigate around the Weather.