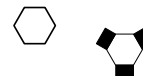


Section 5.2.1: VHF Omnidirectional Radio Range (VOR) & VOR Test Equipment (VOT) Keynotes



5.2.1.1 The VOR (VHF Omni-directional Radio Range)

The VOR operates in the frequency range of 112.1 to 117.95 MHz which is part of the very high frequency (VHF) range 30 – 300 MHz. As a result:

VOR range is restricted to "line of sight" distance from the station

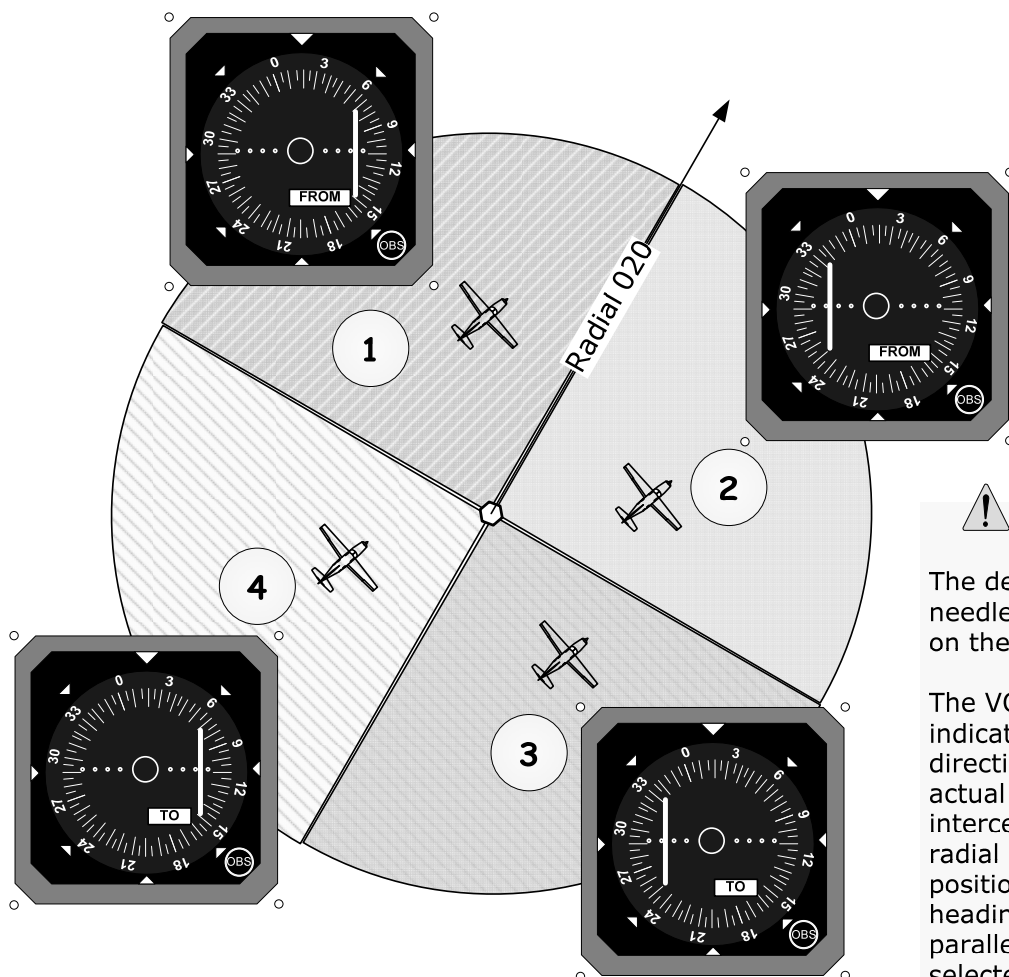
VOR's are not subject to as many errors or as much interference as the NDB and its receiver the ADF

VOR Display indications

The course deviation needle

indicates angular deviation from the selected radial. The needle indicates 2° of deviation per "dot" of deflection from the centre position. Note that the border of the ring in the centre corresponds to 1 "dot". A VOR will have a maximum range of $\pm 10^\circ$ from the selected radial (5 dots).

The TO/FROM indicator indicates which side of the VOR station the aircraft is on relative to the selected radial. If the aircraft is on the same side (within $\pm 90^\circ$ - ie in segments 1 & 2) of the station as the selected radial then the TO/FROM indicator will show FROM while if it is on the reciprocal side to the selected radial (outside of $\pm 90^\circ$ - ie in segments 3 & 4) then it will indicate TO.



NOTE:

The deflection of the needle is not dependant on the aircraft heading!

The VOR needle will indicate the correct direction (but not the actual heading) to turn to intercept the selected radial from your present position provided your heading is approximately parallel to the radial selected with the OBS