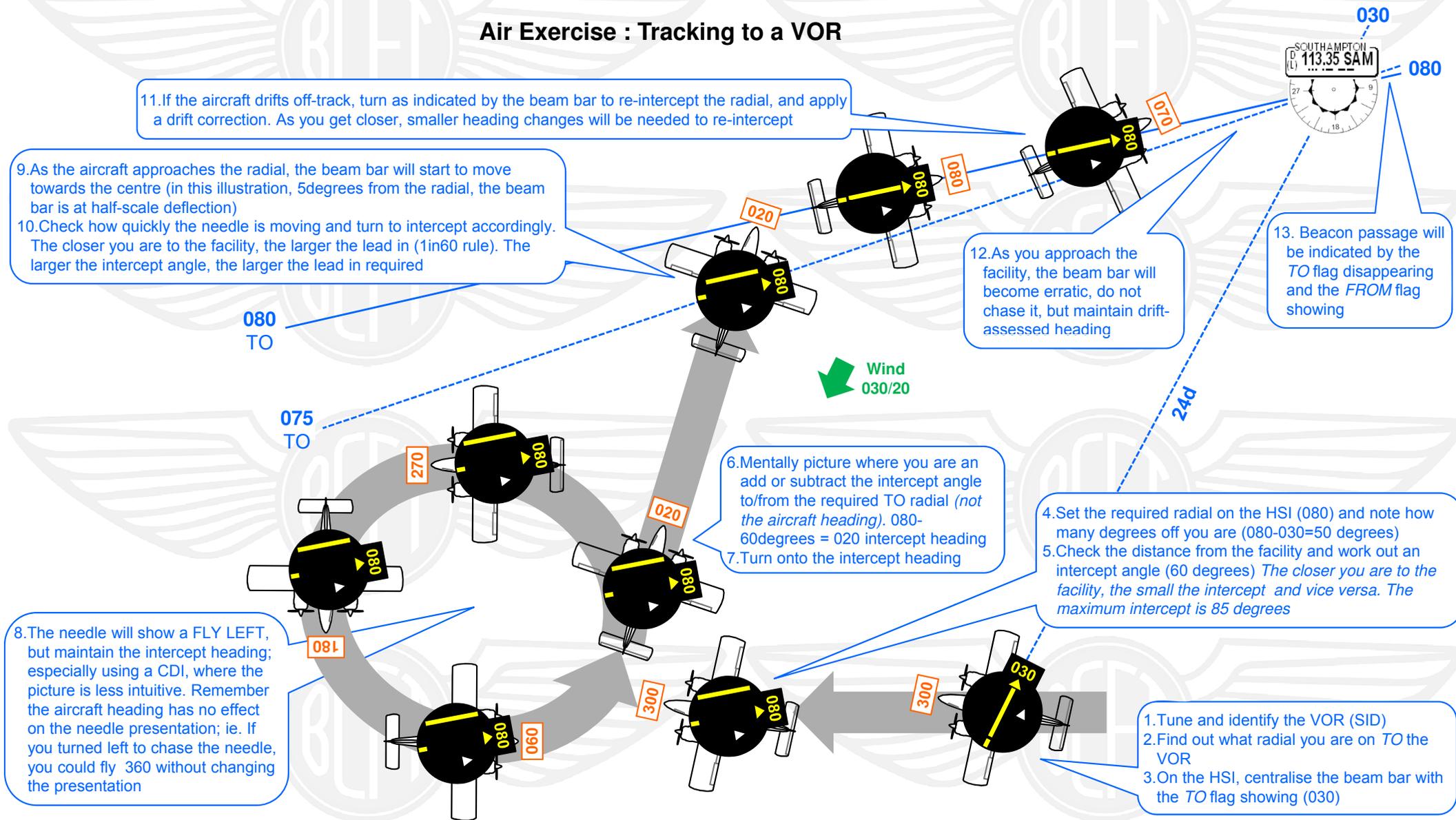# 5. VOR, DME and basic procedures
a. VOR tracking to

Aim	• To intercept a particular track to a VOR	Airmanship	• Current charts, Instrument ground checks, FREDA, S-I-D, DOCs	Performance	• +/-5° (1/2 scale deflection) • +/- 5kts, +/- 100'

Air Exercise : Tracking to a VOR

11. If the aircraft drifts off-track, turn as indicated by the beam bar to re-intercept the radial, and apply a drift correction. As you get closer, smaller heading changes will be needed to re-intercept

9. As the aircraft approaches the radial, the beam bar will start to move towards the centre (in this illustration, 5degrees from the radial, the beam bar is at half-scale deflection)
10. Check how quickly the needle is moving and turn to intercept accordingly. The closer you are to the facility, the larger the lead in (1in60 rule). The larger the intercept angle, the larger the lead in required

12. As you approach the facility, the beam bar will become erratic, do not chase it, but maintain drift-assessed heading

13. Beacon passage will be indicated by the TO flag disappearing and the FROM flag showing

Wind 030/20

6. Mentally picture where you are an add or subtract the intercept angle to/from the required TO radial (not the aircraft heading). 080-60degrees = 020 intercept heading
7. Turn onto the intercept heading

4. Set the required radial on the HSI (080) and note how many degrees off you are (080-030=50 degrees)
5. Check the distance from the facility and work out an intercept angle (60 degrees) The closer you are to the facility, the small the intercept and vice versa. The maximum intercept is 85 degrees

8. The needle will show a FLY LEFT, but maintain the intercept heading; especially using a CDI, where the picture is less intuitive. Remember the aircraft heading has no effect on the needle presentation; ie. If you turned left to chase the needle, you could fly 360 without changing the presentation

1. Tune and identify the VOR (SID)
2. Find out what radial you are on TO the VOR
3. On the HSI, centralise the beam bar with the TO flag showing (030)