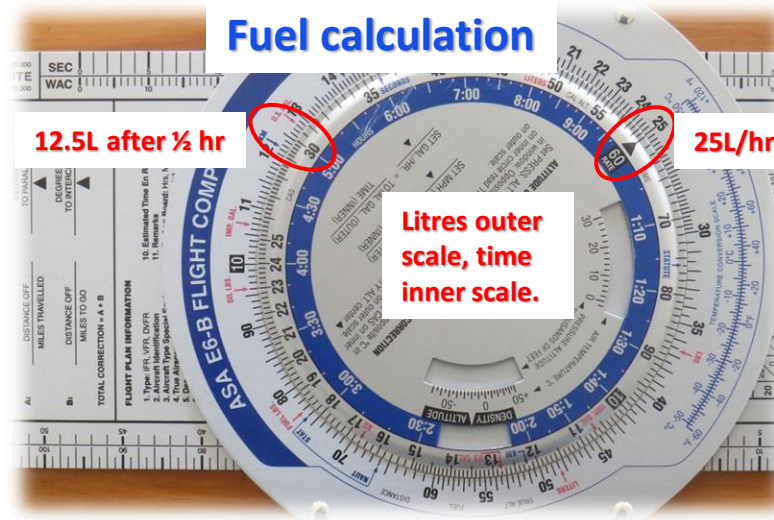
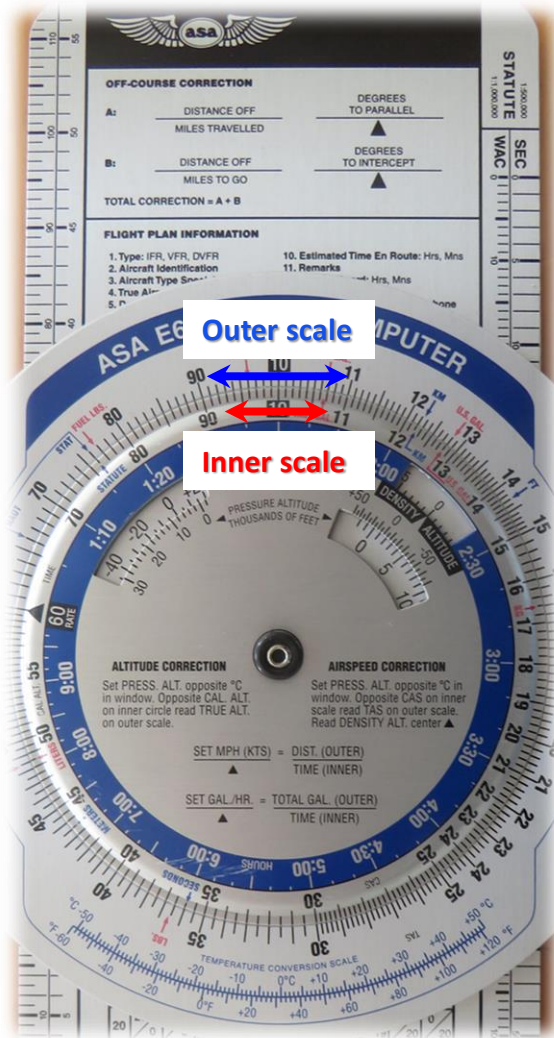


E6B Nav Computer Calculations

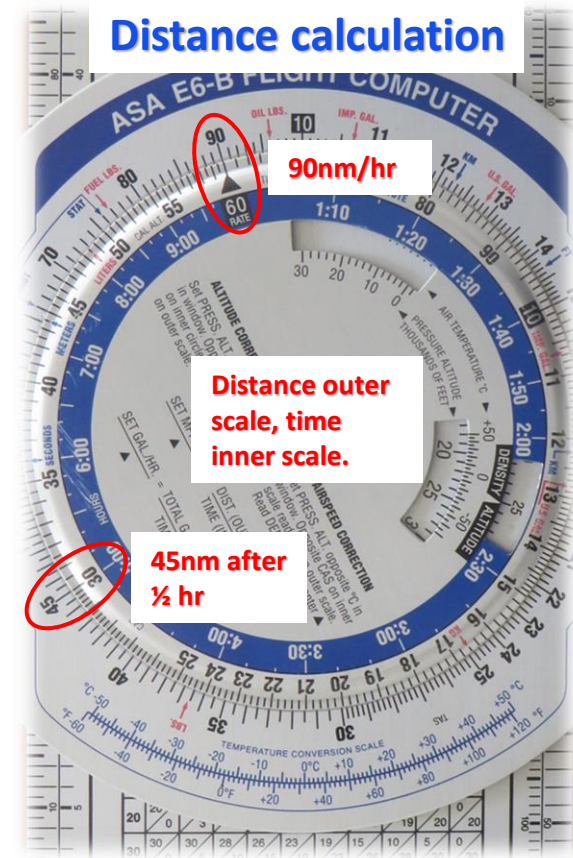
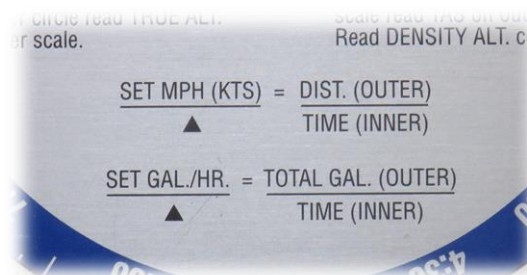
The following content is in A4 size enabling the content to be printed easily.



E6B NAV COMPUTER (Calculator side)



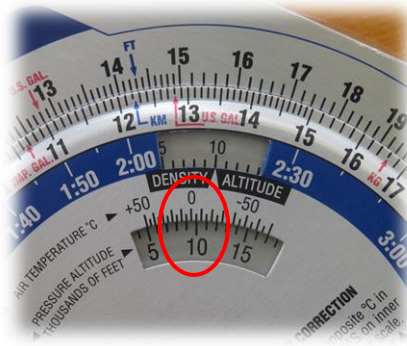
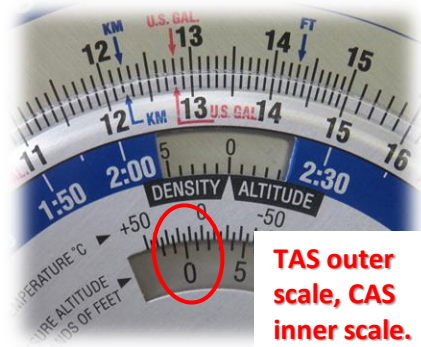
If the rate pointer is placed on the fuel consumption rate, the fuel burn can be calculated for a given time factor (e.g. C150 burns 25L per hour).



If the rate pointer is placed on the aircraft's GS, the distance can be calculated for a given time factor (C150 cruises at 90kts).

E6B NAV COMPUTER (Calculator side)

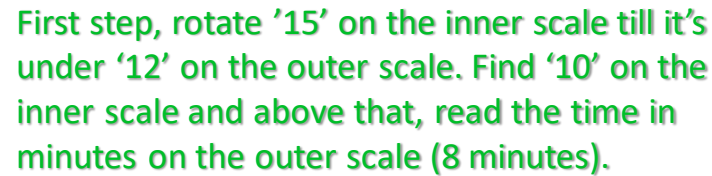
Airspeed correction



Altitude correction



Division



Example info:

- 120ft descent
- 1500fpm
- Descent time?

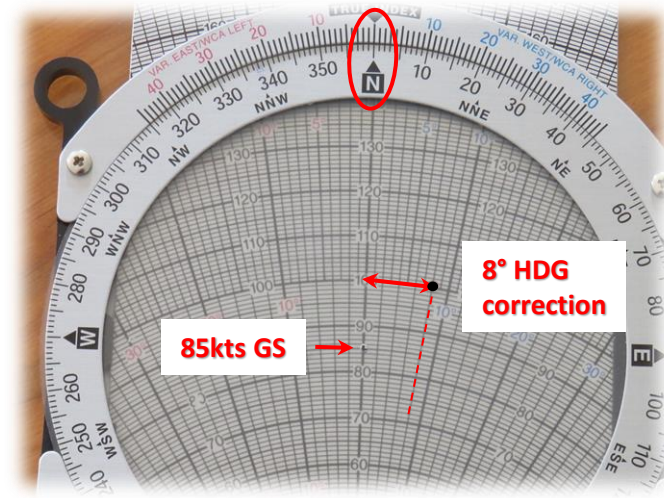
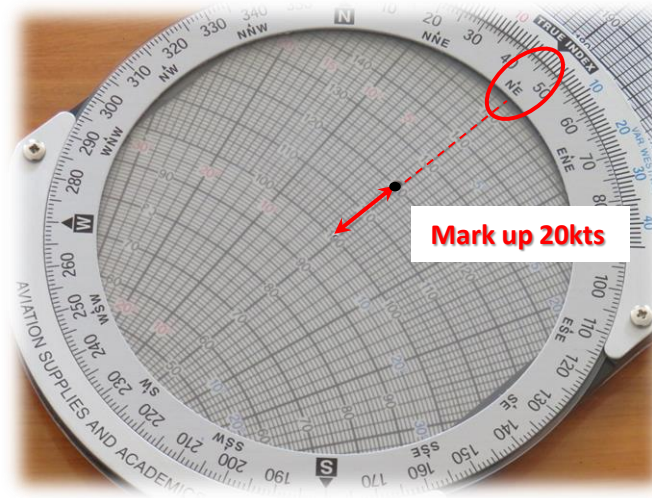
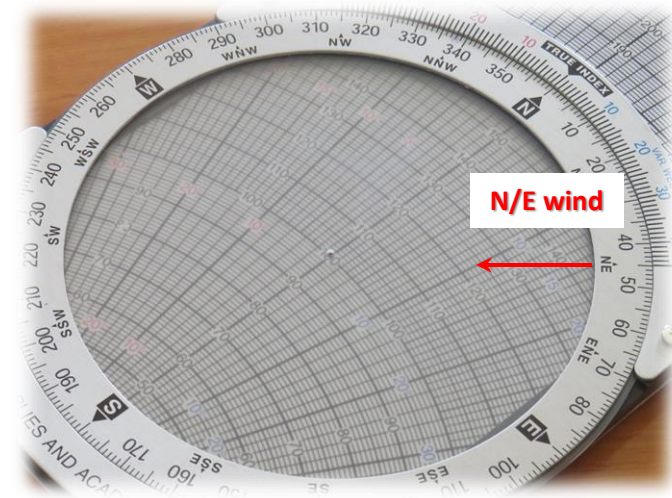
First step, rotate '10' on the inner scale till it's under '15' on the outer scale. Find '8' on the inner scale and above that, read the altitude gained after the climb (120ft).

Example info:

- 8 minute climb
- 1500fpm
- Climb altitude?

E6B NAV COMPUTER (Wind scale side)

HDG & GS calculation



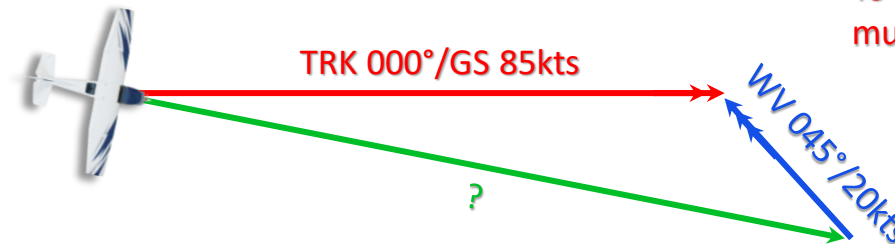
The desired TRK is 000°, cruise speed is 100kts (TAS) and the wind is from 045° at 20kts

First step, place the wind direction under the index and then make a mark 20kts up from the grommet.

Next, rotate the disc to place the desired TRK under the index and slide the scale down till the mark touches the 100kt line. Read GS under the grommet, and HDG correction (in degrees) at the mark.

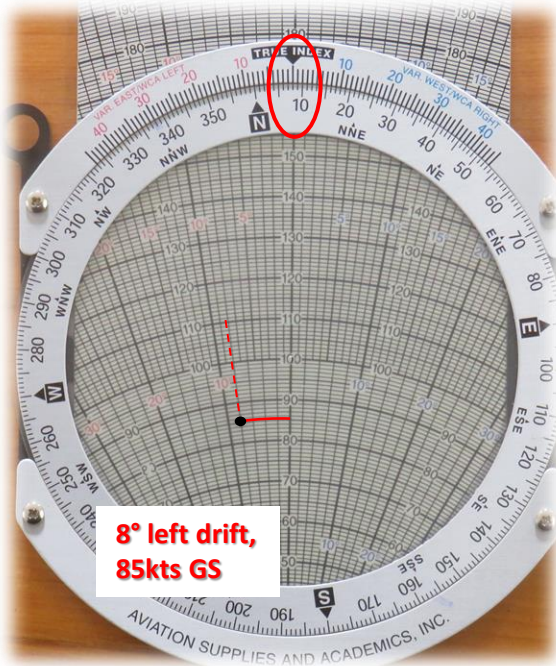
Example info:
TRK - 000°M
TAS - 100kts
WV - 045°M/20kts
HDG/GS - ?

To maintain TRK, 8° right HDG correction must be applied.



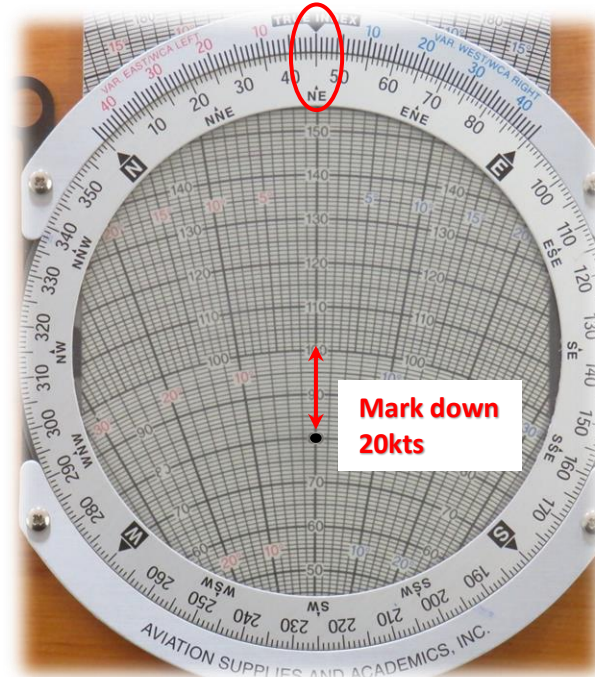
E6B NAV COMPUTER (Wind scale side)

Wind velocity calculation



First step, place HDG under the index, and slide the scale down to place TAS under the grommet. Make a mark where the GS line meets the drift line.

To maintain TRK, you've applied 8° left drift correction.



Next rotate the disc to place the mark directly down from the centre. Read the wind direction under the index and speed down from the grommet.

Example info:

HDG - 008°M

TRK - 000°M

TAS - 100kts

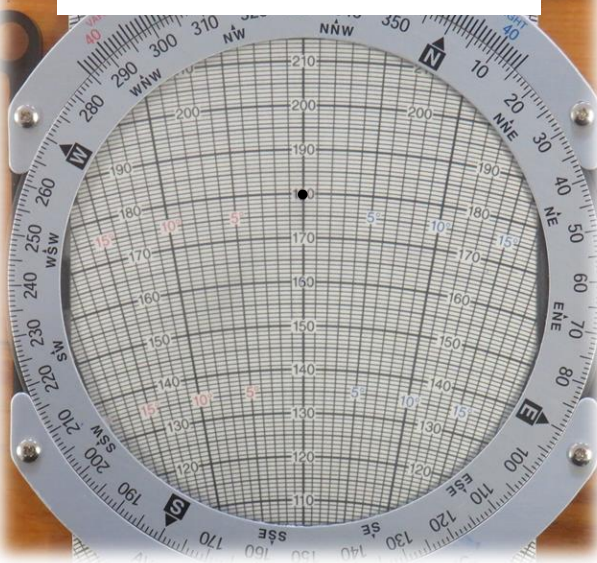
GS - 85kts

WV - ?



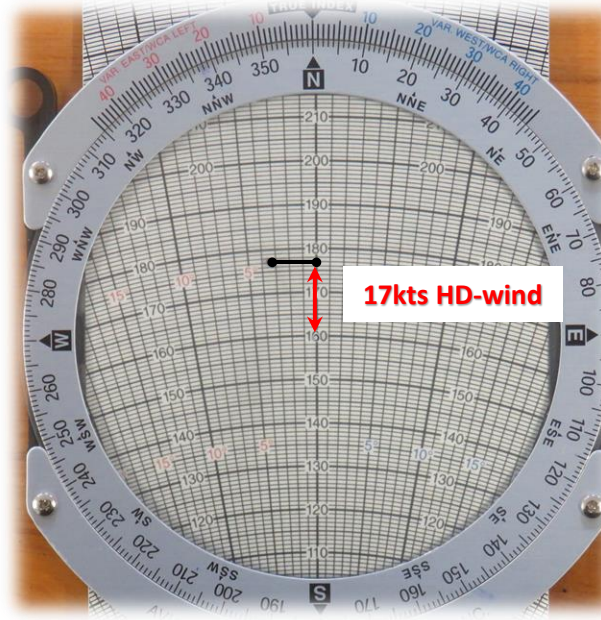
E6B NAV COMPUTER (Wind scale side)

Cross-wind calculation

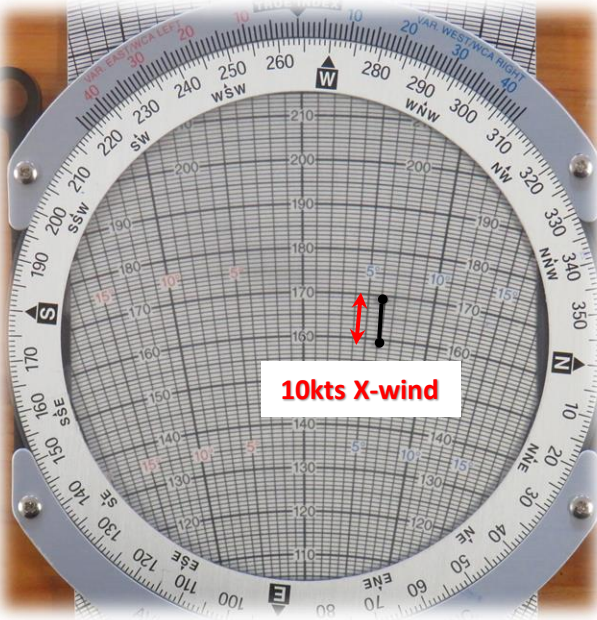


Example info:
- WV 330°/20kts
- RWY HDG 000°

First step, place the wind direction under the index and mark up from the grommet the speed.



Next, rotate the disc to place RWY HDG under the index. Draw a straight line from the mark to the centreline. Read the head-wind component between the line and the grommet (17kts).



Rotate the disc $\approx 90^\circ$ to parallel the horizontal line drawn with a radial drift line. Read the cross-wind value between the ends of the horizontal line drawn (10kts).

