

Selecting a location for, and installation of the EDC-D10A.

If you have opted to use the EDC-D10A remote mounted magnetic compass, finding a good location for this unit is critical, for an accurate EFIS-D10A heading display. Calibration can compensate for small static fields imposed upon the Earth's magnetic field, but cannot take in to account changing effects caused by ac currents, fluctuating dc currents and non-stationary ferrous materials. Please consider the following points when selecting a location for the remote flux detector.

The EDC-D10A remote compass can be located anywhere on the aircraft provided that the chosen location conforms to the following guide lines.

1. The location should be free from any source of magnetic fields, (such as electrical equipment and current carrying wires) ferrous materials, antennae, and including the EFIS-D10A.
2. Introduce a hand held magnetic compass into the chosen location and observe any significant deviation from the initial indicated heading. A deviation will indicate that the location is not ideal for the EDC-D10A. Where possible, apply buss power to any wires or cabling passing through the selected location, whilst carrying out this check.

Having chosen a good location the following guide points must be followed closely.

The EDC-D10A must be mounted such that its orientation is as close as possible to that of the EFIS-D10A.

- a. The EDC-D10A can be mounted in any location (taking into account clauses 1 & 2 above) so long as the long axis is parallel to the wings and level in the roll axis to 2/10 of a degree or better. (See Figure 2)
- b. The EDC-D10A must be installed with the electrical connector facing forward (i.e. in the direction of flight) with the mounting flanges on the bottom. (See Figure 1)
- c. It is essential that the EDC-D10A and the EFIS-D10A have the same pitch angle, within 2/10 of a degree. Read the angle of the EFIS-D10A mounted in the instrument panel, and install the EDC-D10A on its mounting bracket/location to reflect the same pitch angle of the EFIS-D10A. (See Figure 3)

All mounting hardware should be non-magnetic and consequently be of a non-ferrous material such as aluminium, plastic, composite material or brass. Care should also be taken in the use of stainless steel screws and washers etc., since many of these are ferrous alloys. As a general rule, if any proposed installation part is attracted to a magnet, it should be excluded from the installation.

Remember.

The EDC-D10A should be mounted in a location, as free from magnetic interference as possible. This means away from any ferrous nuts, bolts and screws, aircraft tubing, strobe lights & wiring, wires carrying any appreciable current and antenna. Typical installation sites, as with slaved HSI system flux gates, are in the aircraft wingtip and/or tail cone sections, located as remotely as possible from the cockpit and engine installation.

EDC-D10A Orientation:

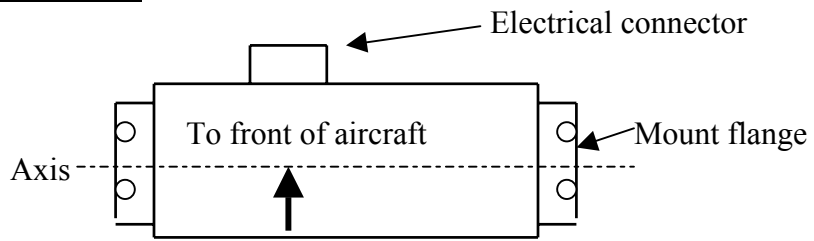


Figure 1.

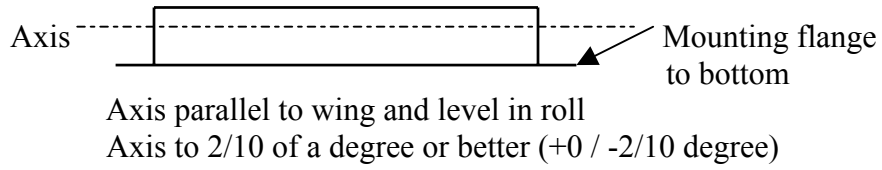


Figure 2.

Pitch angle orientation:

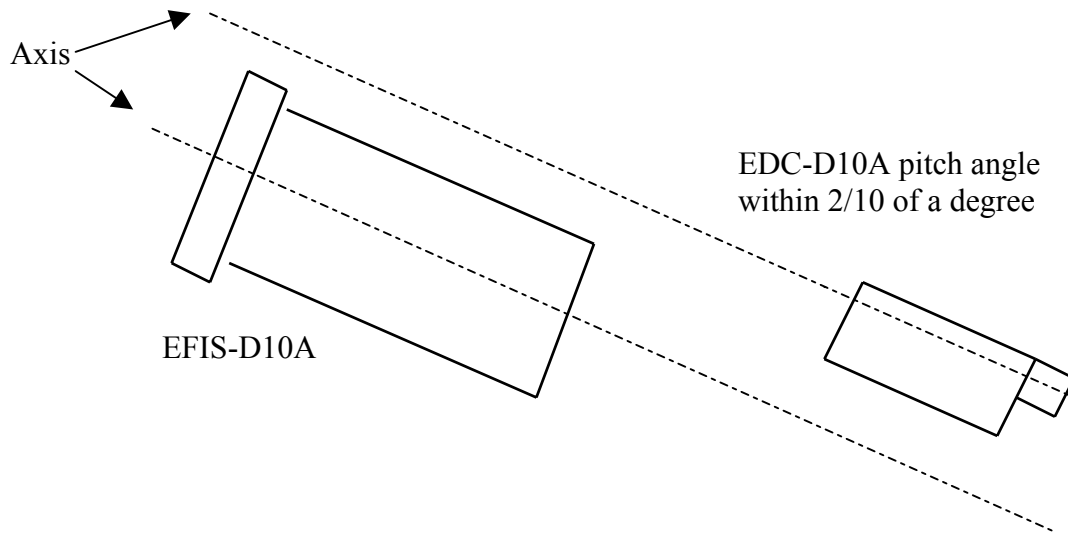


Figure 3.