

PFD FAILURE MODES

We count six possible scenarios that will partially or totally degrade PFD function and force pilots to implement some sort of backup plan:

1. Total electrical failure.
2. PFD failure (failure of the unit itself), which results in reversionary mode.
3. Attitude/heading reference system failure, resulting in "red Xs" on one or more portions of the PFD (regardless of which screen it's displayed upon).
4. Air data computer failure, resulting in "red Xs" on one or more portions of the PFD (regardless of which screen it's displayed upon).
5. Pitot/static system blockage, resulting in "red Xs" on one or more portions of the PFD (regardless of which screen it's displayed upon).
6. Failure of one or more knob or button functions on the PFD unit. Information may display correctly but cannot be changed. Manually entering reversionary mode will likely permit function on the MFD screen.

