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OPERATOR'S MANUAL DFP-1010B DF BEARING PROCESSOR/DISPLAY





DANGER

Although the DFP-1010B is completely safe to operate, the user must comply with the following basic rules of safety and common sense:

1. **SAFE DRIVING ISSUES** - *Two people (a driver and DF operator) are required to safely run a mobile DF mission. It is essential that the driver be required *only to drive the vehicle*. One person cannot simultaneously operate the DFP-1010B and safely drive the vehicle. *Failure to observe this two-person rule can result in traffic accidents causing property damage, injury, and even death.**
2. **DF ANTENNA MOUNTING ISSUES** - *It is solely the user's responsibility to verify that a mobile DF antenna is securely mounted to the vehicle so that it won't fall off while the vehicle is in motion. It is likewise solely the user's responsibility to verify that the aerials (elements) are securely attached to the antenna aerial connectors. Mast-mounted DF antennas must be securely mounted and properly guyed as required. Such installations must be in full compliance with all applicable local ordinances as well as state and federal regulations as discussed in Section II-B-2-e. *Never install an antenna near electrical power lines.**
3. **AIRCRAFT OPERATION ISSUES** - *If DF antennas are to be aircraft mounted, *the installation must be done and formally approved by an FAA certified aircraft mechanic for reasons of public safety* as discussed in Section II-B-2-c. In addition, it is *imperative* that the pilot be assigned no duties other than safely flying the aircraft.*
4. **REPLACEMENT FUSE ISSUES** - *If it is necessary to replace the fuse, *always* use the specified GMA 2.5 ampere 5 x 20 mm fast-acting type. *Never attempt to defeat this important safety feature by substituting a slow-blow fuse or one rated for higher current.**
5. **GPS RECEIVER/DIGITAL COMPASS ISSUES** - *Do not connect a GPS receiver or digital compass to the DFP-1010B before taking the steps called for in Section VII-D. Failure to heed this warning may result in damage.*

Check RDF Products' website at www.rdfproducts.com for product updates and service bulletins.
Can we improve this manual? Contact us at mail@rdfproducts.com to offer suggestions.

FRONT-MATTER - DFP-1000B vs DFP-1010B

The DFP-1010B is a special adaptation of the DFP-1000B DF Bearing Processor intended for applications where the unit is to be operated exclusively by a host computer via RS-232 interface. Although the DFP-1000B has this same RS-232 remote operation capability, it also has a local control/display panel that allows manual operation as well (this panel is blank for the DFP-1010B). Aside from this difference, these two units are fundamentally the same. The specific differences are as follows:

1. The DFP-1010B lacks the DFP-1000B local control/display panel and thus cannot be manually operated. Operation can only be done using a host computer via a 19200N81 RS-232 interface.
2. The DFP-1010B does not have the DFP-1000B "Range Tone" feature. (Range Tone is a feature used exclusively in mobile DF tracking and homing applications where the DFP-1000B would normally be preferred over the DFP-1010B.)
3. The DFP-1010B does not have a loudspeaker or headset jack. It does, however, retain the Line Audio output feature employed by the DFP-1000B. This Line Audio output can be used for audio monitoring and recording.
4. The DFP-1010B GND/AIR and NOR/RCP configuration setup dip-switches (#1 and #3, respectively) are non-functional. Since these functions are more conveniently accomplished in the host computer user-interface software, these two dip-switches have been disabled to avoid possible confusion if one or both of them is incorrectly set.
5. The DFP-1010B lacks a power On/Off switch. As discussed in depth in Appendix K of the appended DFP-1000B Operator's Manual, the DFP-1010B can be powered-up either directly by simply plugging in the supplied DC power cable and connecting the other end to an 11-16 VDC negative ground power source, or remotely by 0/+5V CMOS logic or an open-collector switching transistor.

Provided that the above differences are recognized and taken into account, the appended DFP-1000B Operator's Manual is equally applicable to the DFP-1010B in all respects. Users should therefore disregard all references to the manual controls, local operation, display, PDA, Range Tone, loudspeaker, headset, GND/AIR & NOR/RCP dip-switches, and all other topics specific to the DFP-1000B. <>