

3.2 Adjustments

The Station's adjustments and programming are password protected, and are available only to the factory and factory-trained maintenance personnel. Authorized, factory-trained personnel should consult the maintenance manual for the Station for further information.

3.3 Normal Repeater Operation

When the unit is placed in normal service, no user intervention is required. The ID number of the incoming mobile/portable transmission is displayed on the front panel LCD display. The RX and TX LED indicators will light, indicating the unit is transmitting. The RF Power Amplifier cooling fan will turn on when the station transmits.

Caution:

The DB-1000 Station should never be operated without an antenna or 50 ohm test load attached.

3.4 Automatic Station ID

The DV/IP Base Station has a built-in automatic Morse Code generator that may be programmed to periodically transmit the assigned call sign of the base station with a frequency modulated carrier wave, if required or desired. The MCW audio frequency is 1,350 Hz. Consult the factory for programming information.

4 Maintenance and Repair

4.1 General

There are no user-servicable components in the station. There are no manual adjustments or alignment controls. The station has hazardous voltages present inside. Testing, installation and repair must be performed by qualified technicians trained in the handling of this equipment. Severe, potentially lethal electric shock can occur from contact with the AC input terminals, power supply connector or AC fuse, accessible when the top cover is removed. Therefore, the top cover should only be removed by experienced and qualified technicians

trained in the handling of this equipment and only when the AC mains power cord is removed.

CONTACT THE FACTORY FOR MAINTENANCE, REPAIR AND WARRANTY INFORMATION.

4.2 User Routine Maintenance

4.2.1 Quarterly

- Dust should be removed from the air filters. This may be performed by removing the two left hand front panel fans, and the power supply mounting bracket, in order to remove and clean or replacing the fan filters. Alternatively, the air filters may be cleaned with a strong vacuum cleaner, by applying the vacuum cleaner's hose over the air intakes and removing built up dust and residue.
- The station should be "keyed" (placed into transmit mode) and all fans observed for normal operation. Replace any fans that may have failed.
- Using a DV/IP compatible mobile or portable radio ("the test radio"), place the test radio into "ECHO" mode and "TECHNICIAN" display mode, and make several ten second voice transmissions through the station from a location where normal or better coverage is routinely experienced. The test may be performed at the station's installation (tower) location. Observe the two frame error readings on the front panel of the test radio. Typically 1 or less frame errors should be observed. If an unusually high number of errors are observed, contact your factory authorized service person or the factory.

4.2.2 Annually

- The transmitter frequency and power output should be checked by a factory trained service technician using service procedures recommended by the factory.
- The receiver temperature controlled crystal oscillator should be checked by a factory trained service technician using service procedures recommended by the factory.

- Additional tests should be performed as recommended by the factory by a factory trained service technician using service procedures recommended by the factory.

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