

Technical Service Bulletin for Distortion

Detector users

This is a technical service bulletin to inform the owner of two conditions that may damage your DD-1 Distortion Detector Tool.

As of this writing we have shipped more than 1000 units. Of this we have had four identical failures in which an internal component fails. We have analyzed this failure mode and have discovered a diode that can fail. Two conditions can cause this failure.

Causes of failure:

- The guaranteed operating range of input signal is 1.2Vrms – 125Vrms. The Distortion Detector DD-1 will not handle voltages exceeding 125Vrms. This can cause the internal voltage to climb past the capability of the internal components causing them to fail.
- The ground (Black) lead has been connected to the (-) output terminal of the amplifier, or between two bridged amplifiers. **When connecting the Distortion Detector DD-1 always verify that the negative (Black) wire is connected to the vehicle ground or amplifier battery ground. Never connect the black wire to any other location, especially the output connector ground as this can cause damage to your DD-1.**

Symptom of failed diode:

- Distortion Light comes on at any signal level AND constant chirping sound from distortion detector when signal is applied.