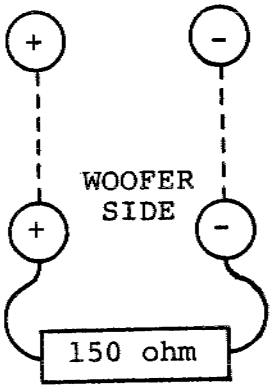
Phase Linear Corporation
20121-48 Avenue West
Lynnwood, Washington 98036 USA
206 774-3571 TWX 9104492851

2/80
rev 6/81

SERVICE BULLETIN

SUBJECT: Infinity Speakers with Watkins(TM) Woofer System

Due to the crossover design of the Watkins(TM) Woofer system, a very large capacitance value (1000-2000 uF) is seen by the amplifier. Normally this capacitance is not a problem, however under some operating conditions trouble can occur. Avoid turning off the amplifier and turning it back on before the crossover completely discharges (usually 1-2 min.). The amplifier charges the capacitors at turn-off, and upon turn-on they discharge back into the amplifier, causing offset and/or damage to the amplifier and/or speaker.
To bleed off this charge a resistor shunt at the speaker terminals for the woofer is recomended (see diagram below). The value for the resistor is 150 ohm/10 watt.
For further information contact: Infinity Systems, INC.
(213) 883-4800
Canoga Park, California



(10 watt)

--- BI-AMP LINK

Phase Linear

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BULLETIN

SUBJECT: INFINITY QUANTUM LINE SOURCE SPEAKERS COUPLED WITH PHASE LINEAR POWER AMPLIFIERS

Recent field reports have shown an abnormally high failure rate on various power amplifiers coupled with any of the Infinity Quantum Line Source Speakers, among these the Phase Linear Model 400 and 700(B) amplifiers. After obtaining a set of QLS speakers here at the factory, our tests revealed that the 3000 mfd coupling capacitors in these speakers created a potentially hazardous condition to the power amp when switching the power off and then back on again before these large capacitors have fully discharged. We have discussed our findings with Infinity who has officially authorized our proposed modification which will eliminate the interface problem.

BEFORE OPERATING OR CONTINUING TO OPERATE ANY OF THE QLS SPEAKERS WITH PHASE LINEAR OR OTHER AMPLIFIERS, IT IS RECOMMENDED THAT AN APPROXIMATELY 500 OHM 5 WATT RESISTOR BE INSTALLED ACROSS THE TERMINALS OF EACH SPEAKER AS SHOWN IN THE DIAGRAM BELOW.