

Creating the ultimate CD players

Successfully playing back the full depth of sounds by adopting Black Gate N capacitors in the heart of the amplifier

The report titled "Improve CD player performance" (Technical report No. 24) has had a large impact all around Japan causing CD player manufacturers to begin using Black Gates in their CD players. We have received lots of reports from customers who reported even better improvement than they had expected. Among them, some enthusiastic fans of Black Gates



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| ① BG-N16V33 μ F | ④ BG-FK16V100 μ F |
| ② BG-N50V100 μ F | ⑤ BG-FK50V1000 μ F |
| ③ BG-FK25V220 μ F | ⑥ BG-FK35V2200 μ F |

have requested a further upgrade to the ultimate level. In response, we have immediately developed the super-low-noise BGN-16V33 μ and used it to replace the conventional PC board mounted capacitor on the moving mechanism of an experimental CD-95. We also tested it with CD players made by other manufacturers. This capacitor smoothes the power supply to motors, lasers, play head amplifiers, and is the key to the performance level of CD players. Two weeks later, some independent experimenters excitedly reported that they could hear a greater depth of sound (a widened range in both front and rear) than they had ever heard from a CD before.

After them, we and other fans of BGs confirmed the fact. One of the experimenters sold out his long-loved, separate type amplifier made by "A" company after finding as an absolute difference of sound quality. He found the comparison extremely striking. The birth of the ultimate CD player, equal to analog players, is very close indeed. The distortion generated by ordinary electrolytic capacitors is far too large to deal with various measures such as oversampling systems, separated structures, optical fiber cables, and heavy chassis. Capacitor distortion simply cannot be solved by circuit technology. It is clear that only the way to solve the variety of problems is to replace the capacitors with completely non-distorting capacitors: the Black Gates. This fact is very important and it means that the Black Gate can contribute greatly, not only to improving the performance of CD players, but also to the performance of digital signal processing devices that use disk shaped media, such as floppy disk and optical disk. The trend toward CD music software is growing, and the hardware to play this high quality software must respond to this trend and provide perfect performance. In order to meet the requests from fans, CD players and vacuum tube amplifiers employing Black Gate capacitors have recently been introduced in the commercial market. Advanced audio shops all over Japan are taking the initiative and expanding their lines to include the highest sound quality as soon as it becomes available. Black Gate capacitors are changing the conventional audio map!