

Sony KSS-213C laser head replacement Sanyo SF-P101N

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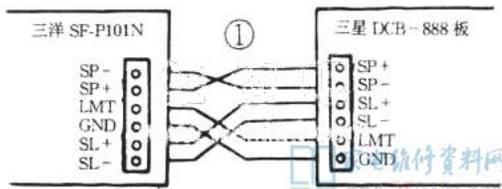
A Shenzhen-made "Delibao" brand 288 VCD player needs to replace the laser head; this machine uses a Sanyo SF101 laser head, which is not on hand. I remember that there was an article in "Electronic News" that replaced the Sony KSS213 laser head with the Sanyo SF101 laser head, so it should be possible to do the reverse. I found this article, which said "Sanyo SF101 single-row 16-line laser head and Sony KSS-213 laser head have completely corresponding cable and pin functions, and can be directly replaced, but the gears on the KSS-213 laser head frame must be aligned. Remove the plastic strip on the side." To be on the safe side, carefully check the laser head cable socket on the servo board before replacing. The writing on the side shows that the two laser heads are exactly the same. So feel free to replace.

Turn on the machine and observe, only the laser head shakes wildly, the object image is about to jump out of the laser head, and there is a large movement, and there is a sound, but no laser is emitted. Can't help but turn pale with fright, turn off the machine hastily! Remove the new Sony 213 laser head and install it on another good machine for verification, it is damaged. Open the servo circuit board, it is "Samsung PCB-888" servo board from the Ic used, it is suitable for the Sony 213 laser head, how can it damage the laser head? The Sanyo laser head

and the Sony 213 laser head After careful comparison, I found that it is indeed different:

1. The model of the original Sanyo laser head is "SF-P101N", which is a single-row 15-line laser head instead of 16 lines. The reason why I mistakenly think it is a single row of 16 lines is because the cable socket on the servo board and the ribbon cable used by the laser head are all 16 lines. But I didn't find that the extra wire (Vc2.5V) on the side where the cable was inserted into the laser head was cut off and unused.

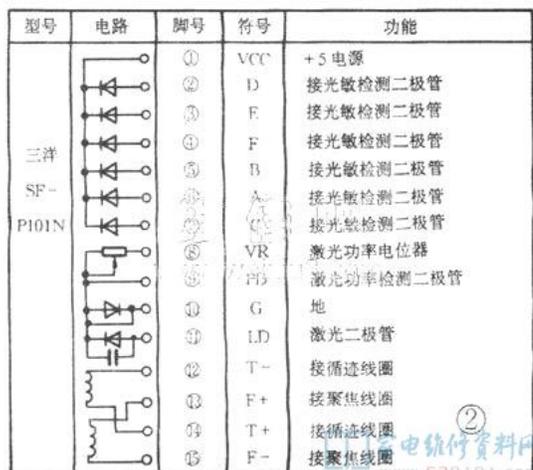
2. The sequence of connecting the spindle, feed motor and limit switch on the Sanyo laser head is different from that of the Sony 213 laser head, and the manufacturer has changed the wiring (see Figure 1).



3. Sanyo SF-P101N single-row 15-pin laser head is completely different from Sony 213 laser head cable and pin functions. In order to use this Sanyo single-row 15-line laser head, the manufacturer has changed the wiring on the copper foil surface of the Samsung PCB-888 servo board used. What's annoying is that the laser head cable socket and marked pin function on the component surface are still equipped with Sony's single 16-line KSS-213 laser head.

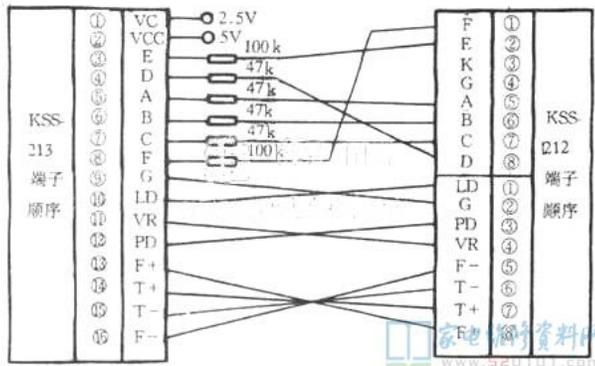
So far, it is not surprising that the newly replaced laser head is damaged, but my Sony KSS-213C is a pity.

Because the Sanyo SF101 laser head with single row of 15 lines and 16 lines is different, it is difficult to replace. See Figure 2 for the circuit diagram of the Sanyo SF-P101N laser head according to the physical survey.



The servo board of this machine is a Samsung PCB-888 board, and there are sockets for the Sony KSS212 laser head and a socket for the Sony KSS-13 laser head on the board. As long as the wiring of the printed board is adjusted correctly (there are many jumps on it), it can be replaced. The author added 6 resistors as shown in Figure 3, and replaced the Sony KSS-213C laser head successfully. The detailed process is omitted, but it should be noted that the pressing

conditions of the two laser head trays and the pressing cover are different, and correct handling is required, otherwise there will be failures that cannot lock the disc.



The lessons of this laser head replacement, on the one hand, show that the author's empiricism in repairing the machine caused mistakes; on the other hand, it also shows that some small factories that produce miscellaneous assembly machines do not have system design capabilities, and the production is very random. Care must be taken when servicing such machines.

This information is helpful to me

other recommendation

- Analysis and Repair of Laser Optical Trouble of Video Disc Player
- Replacement of Philips 1204/1206 laser head
- The difference between current output type and voltage output type VCD laser head
- Replacement of Philips CDM laser head
- Judgment and Replacement of Laser Head Aging of DVD Player
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