

PENTAX™

Service Manual

ENGLISH

PENTAX *K100D Super*



Product No.76706

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Summary

K100D Super (76706) is basically same as K100D (76700).

K100D Super corresponds for SDM lens and equipped DR function.

Concerning the disassembly, assembly, adjustment procedure and technical information, please refer to the service manual of K100D (76700).

The following spare parts are exclusive use for k100D Super. Refer to the parts list for k100D Super

- ◇ Front cover right (A161) ◇ Plate (A162) ◇ Rear Cover (A201)
- ◇ Dust collection sheet (A35)
- ◇ SR/CCD block (0-C000) ◇ Main PCB (0-T100、76700-0-T100 can be used)
- ◇ AF motor (0-S300)

PREPARATION

1. Service tools, tester (Same as K100D except below adjustment software)

Adjustment software for 76706/76700 (SLR / Digital / SR)

--- 95901 P412

If you already has adjustment software for K100D, the new software which correspond K100D Super will provide automatically.

If you do not have adjustment software for K100D, please place order with 95901 P412

Preparation for adjustment

Preparation:

Adjustment software for 76706/76700

Personal computer

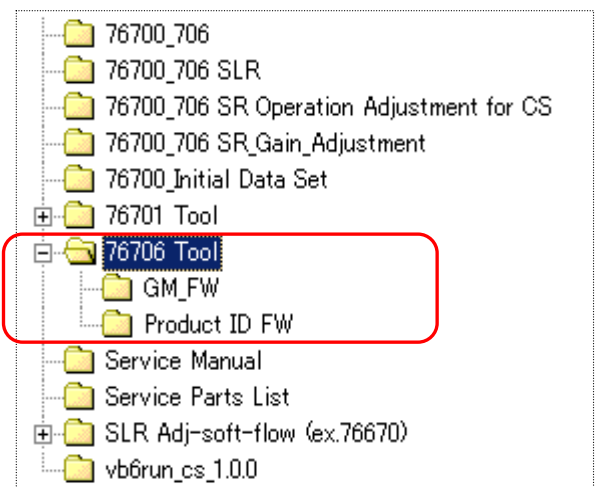
SD memory card 8MB x3

Camera and USB cable or SD card leader

1. Prepare the SD memory card x 3

1. Product firmware
2. Firmware for replaced T100
3. Writing initial data

95901-P412



Setting the Computer and SD card

- ① Delete previous adjustment software for K100D in the Computer
- ② Insert adjustment software for 76706/76700 to the computer and copy following folders into the C drive
『76700_706』・『76700_706 SLR』・『76700_706 SR Operation Adjustment』・
『76700_706 SR Gain Adjustment』
- ③ Copy 2 files to the SD card which in the 「76700 Initial Data Set」 folder
- ④ Copy 『**kb459b.bin**』 to the SD card which in the 「GM_FW」 folder
- ⑤ Copy 『**kb392.bin**』 to the SD card which in the 「Product ID FW」 folder

【Caution】 VB runtime should be completed, refer to the service manual for K100D.

DISASSEMBLY AND ASSEMBLY

1. Replace 0-T100

◆ When replaced T100, the following procedure is required

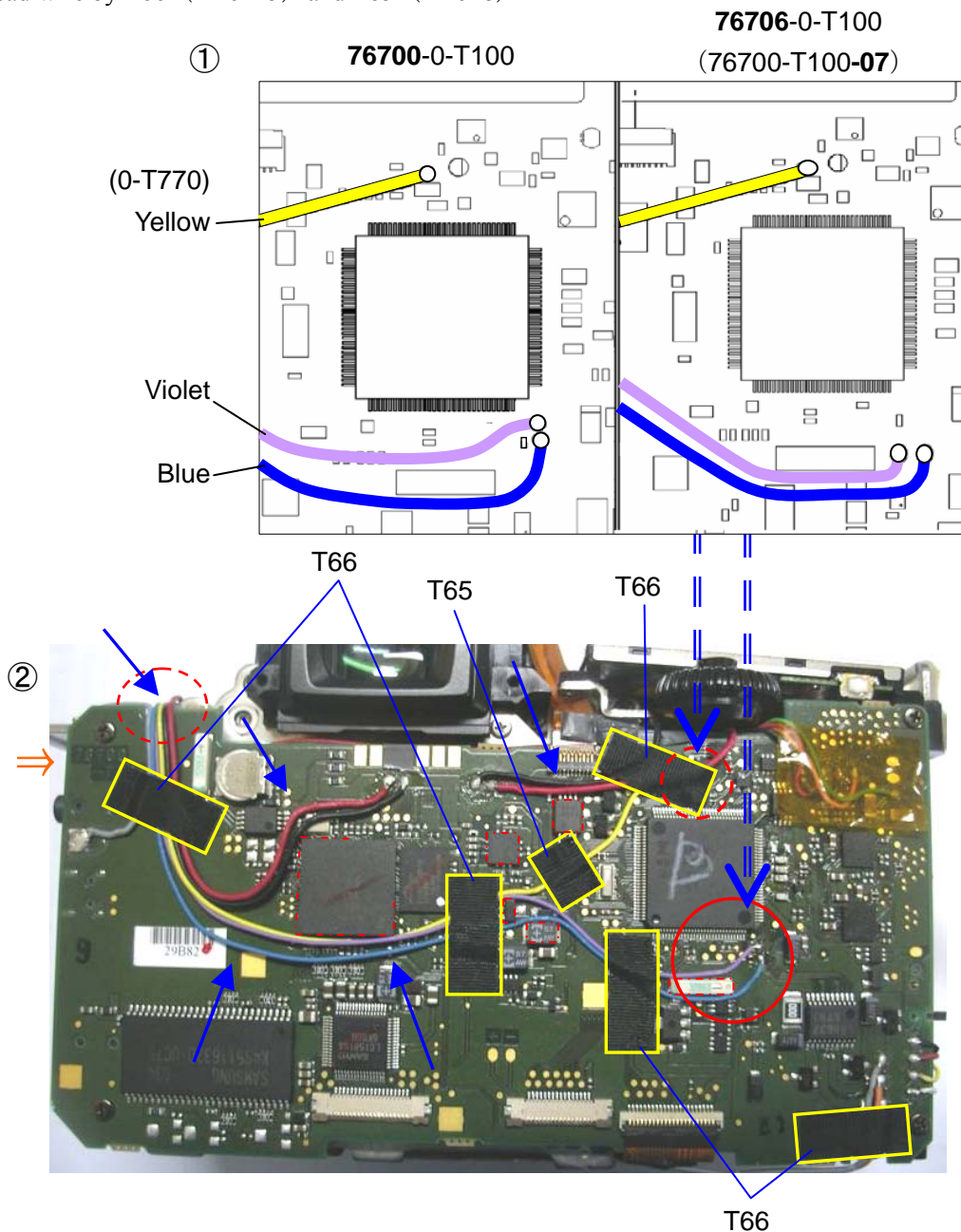
【Caution】

- ① Install FW for replaced T100
- ② Install product FW
- ③ Initialize the data

Important note: It should be done from ① → ② → ③

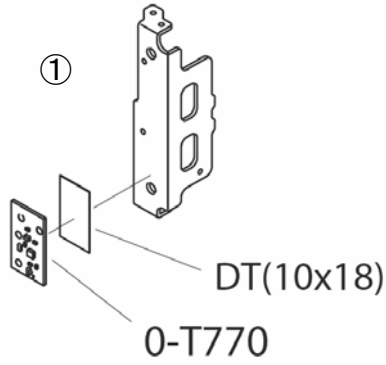
2. Arrangement the lead wires on O – T100

- ① x 3 (Yellow, purple, blue)
- ② Arrange the lead wires as follows
Fix the lead wire by T66 (BT6x15) and T65 (BT6x8)

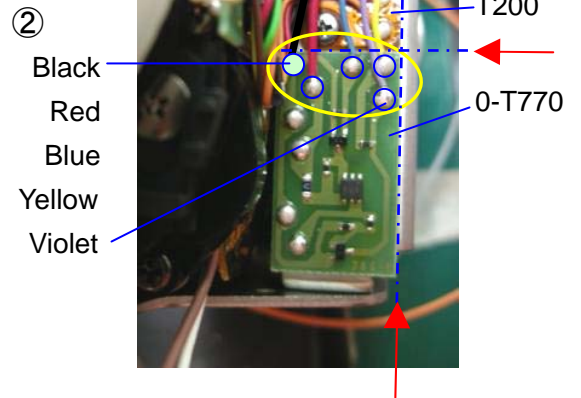
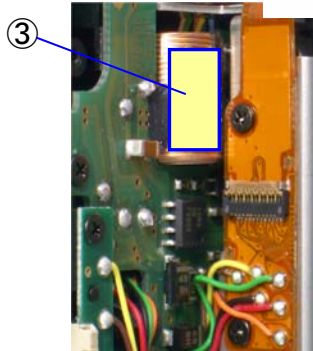


3. 0-T770 (SDM PCB)

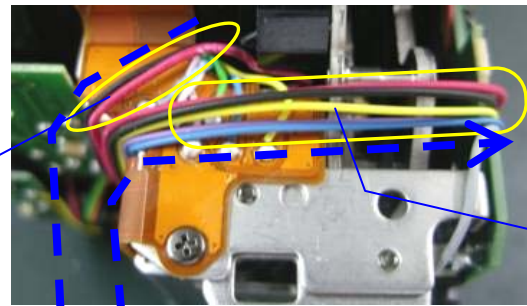
- ① 0-T770
- ② Lead wires x 5



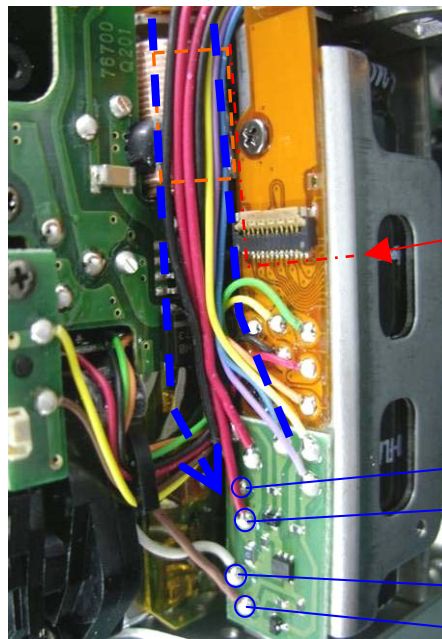
- ③ DT(7x11)



2 lead wires
(Q200→T770)

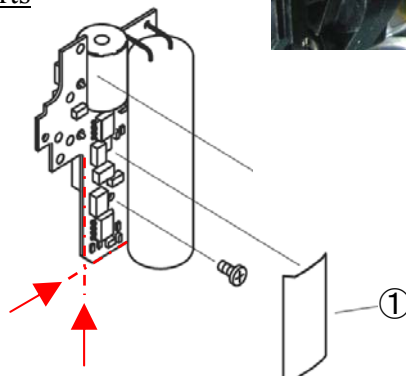


- ④ Lead wires x 2 (Red, Black)
- ⑤ Lead wires x 2 (White, Brown)
- ⑥ Arrange the lead wires as picture



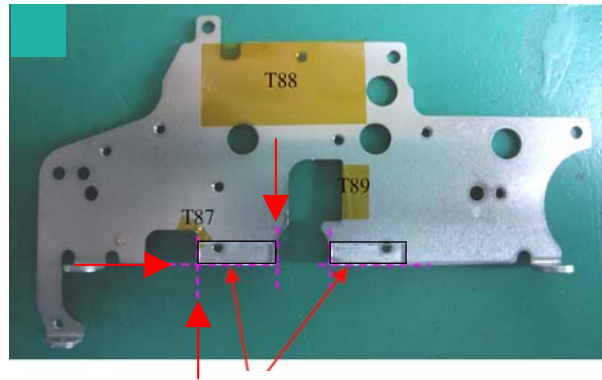
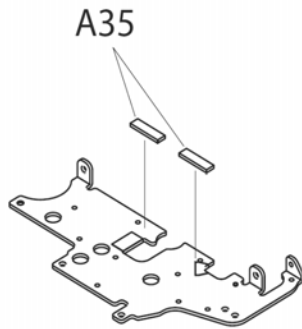
4. 0-Q200 and related parts

- ① PT(13x25)



5. A35 (Dust collection sheet)

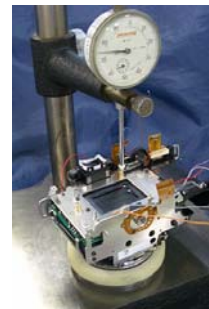
- ① Attach A35 x 2, refer to the picture



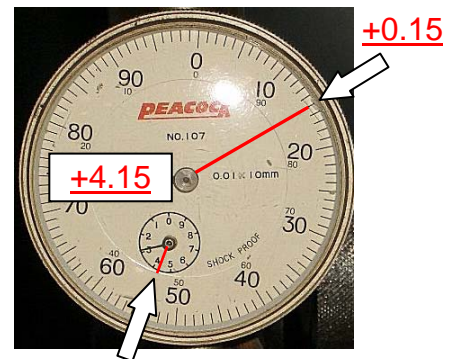
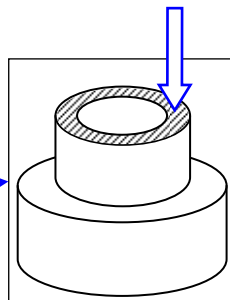
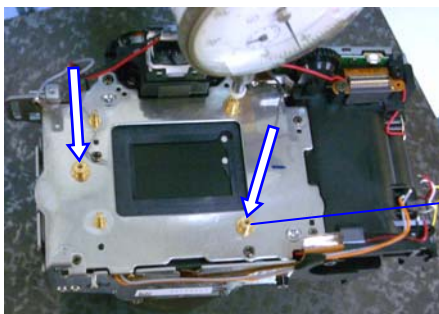
6. [CONF] CCD Base Plate Support Pillar

[Required equipment] Block gauge for 35mm, Dial gauge comparator, etc.

- ① Measure height of the CCD base support pillar (3 places) from the mount surface as shown in the figure.

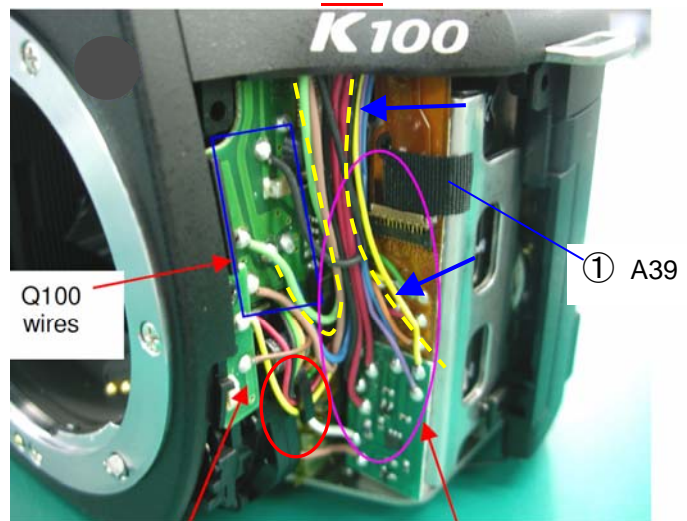


| | |
|--|---|
| Standard | <u>49.610±0.02 mm</u> |
| Use block gauge for 35mm, (45.46mm) | <u>+4.15 ±0.02 mm</u> (+4.13~4.17 mm) |



7. Arrange the lead wires

- ① Fix the flex with A39 (BT 6x10)
- ② Arrange the lead wires as picture



8. 【Confirmation】 Terminal for SDM

* Attach SDM lens and check the function of SDM

Q200 board

Wire arrangement

Battery consumption current

Condition : Lens [FA lens, A position], each mode and setting is default setting.

Lens---- ○ : With × : Without

SD card---- ○ : With × : Without

* 5,6 and 7 are peak value averages

| | Condition of camera | Lens | SD card | Battery DC5.5V | AC Power supply DC6.5V |
|----|---|------|---------|-------------------|------------------------------|
| 1 | Main SW/OFF | ○ | × | 50μA | 10mA |
| | | ○ | ○ | 50μA | 10mA |
| | | × | × | 50μA | 10mA |
| 2 | After auto power OFF | ○ | × | 250μA | 10mA |
| | | × | × | 250μA | 10mA |
| 3 | Main SW/ON (Meter OFF) | ○ | × | 180mA | 240mA |
| | | ○ | ○ | 180mA | 240mA |
| | | × | × | 180mA | 240mA |
| 4 | Main SW/ON (Meter ON) | ○ | × | 370mA | 420mA |
| | | ○ | ○ | 370mA | 420mA |
| 5 | Charging Flash (Meter ON) * | ○ | × | 2,100mA | 2,200mA |
| 6 | Driving AF motor * | ○ | × | 2,200mA | 2,300mA |
| 7 | Operating SDM | ○ AF | × | 3,500mA | 3,500mA |
| | | ○ MF | × | 2,200mA | 2,200mA |
| 8 | Releasing shutter * | ○ | × | 3,000mA | 3,200mA |
| | | ○ | ○ | 3,000mA | 3,200mA |
| 9 | Recording image after release the shutter | ○ | ○ | 350mA | 350mA |
| 10 | Bulb | ○ | × | 1,200mA | 1,200mA |
| | | ○ | ○ | 1,200mA | 1,200mA |
| 11 | Displaying menu (LCD) | ○ | × | 500mA | 450mA |
| 12 | Displaying menu (Video output) | ○ | × | 400mA | 350mA |
| 13 | Displaying playback image | ○ | ○ | 500mA | 450mA |
| 14 | Recording playback image in the card | ○ | ○ | 500mA | 450mA |
| 15 | Stand by for USB communication | ○ | ○ | 300mA | 300mA |
| 16 | Reading playback image in the card with USB communication | ○ | ○ | 350mA | 300mA |