AI Series SD card instruction

A. List of devices
1. Power cable. Photo 1.1
2. Data transfer cable. Photo 1.2
3. SD card reader. Photo 1.3
4. SD card.
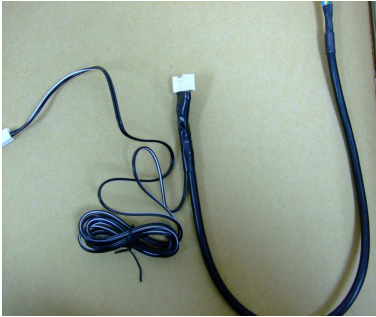

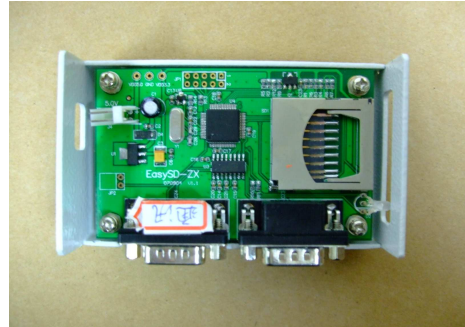Photo 1.1   Photo 1.2   Photo 1.3

When purchasing the above device, no.1 to no.3 in the list are standard while the no.4 is optional.

Connection instruction
5. Power cable; refer to Photo 2.1, Photo 2.2. Connect one side to CPU board; the other side connects to the 4 PIN on I/O board.
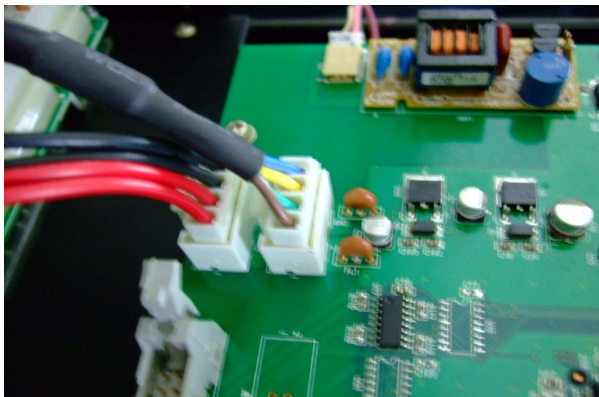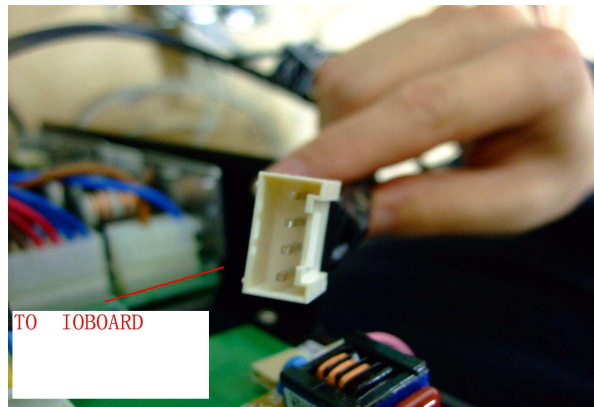

TO   IOBOARD

Photo 2.1   Photo 2.2

6. Data transfer connecting way, refer to Photo 2.3, Photo 2.4

Data transfer cable one side connects to CN2

The other side connects to the port 1, please be careful of the position.
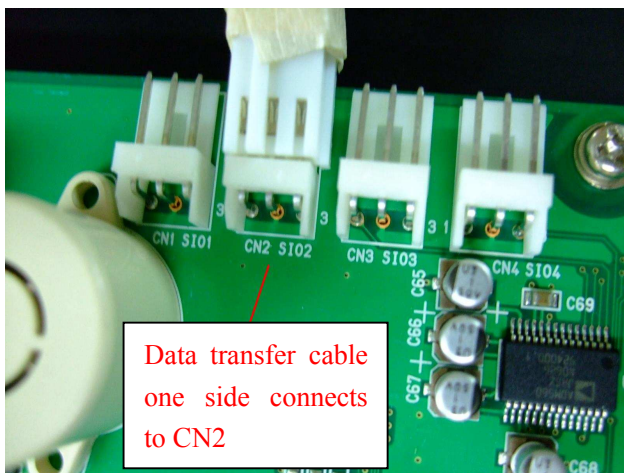
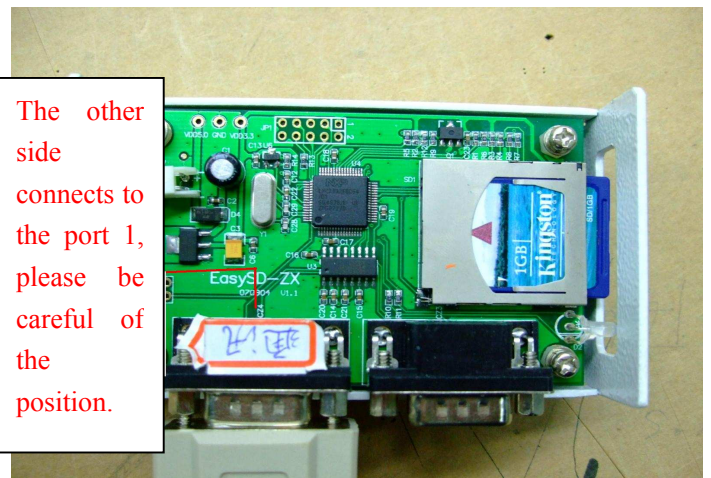Photo 2.3   Photo 2.4

B. How to check if the connection of AI Series
a) Device didn't be connected or connection error, it would shows on the screen;
b) Successful connection, it would shows on the screen.

C. Instruction.

   a)   Data saving. (We suppose the SD card is blank and the connection is OK in the following.)

   Suppose the Mould names are as Photo 4.1, the SD card is blank, so it appears as Photo 4.2.
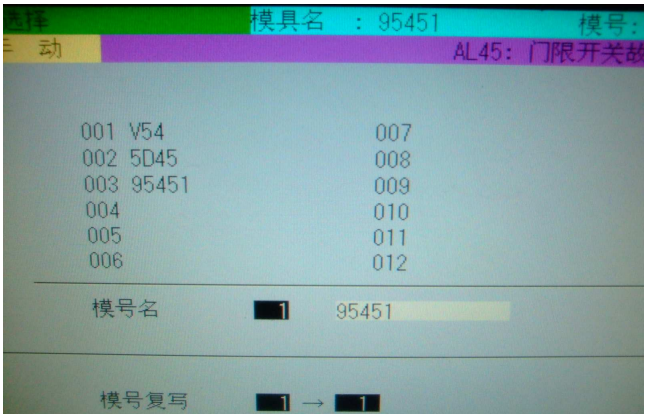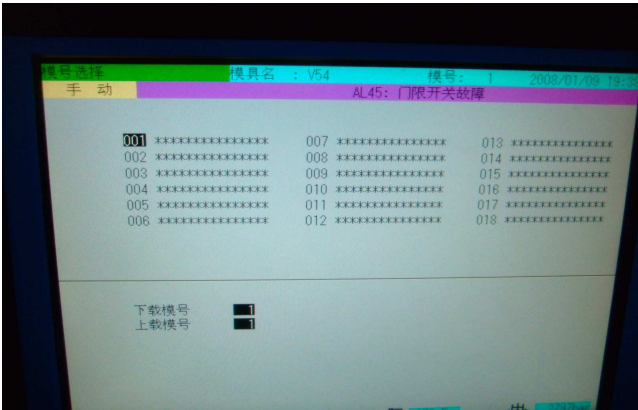

Photo 4.1

Photo 4.2

   i.   Save mould number one by one.

   Find the mould number you need in the mould number download page, press ENTER, and then CONFIRM.
   For example, choose NO.1, press ENTER, then CONFIRM. You will see the LED on SD card reader flash from
   red to green, that means the mould NO. 1 had been saved to SD card. (File named AIMOLD001.DAT). After
   save OK, the mould NO. 1 in SD card would shows the same name as in the machine, as shown in Photo 4.3.

   Then choose NO.2, press ENTER, then CONFIRM. You will see the LED on SD card reader flash from red to
   green, that means the mould NO. 2 had been saved to SD card. (File named AIMOLD001.DAT). After save OK,
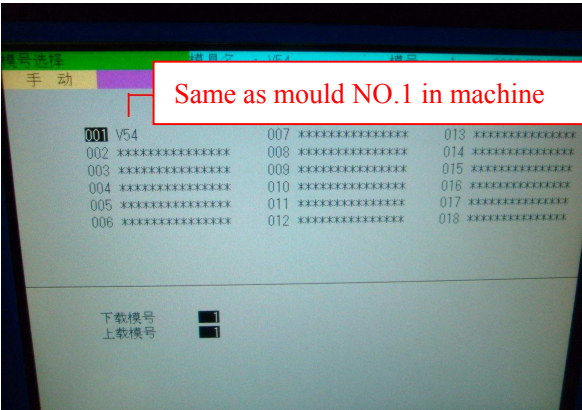   the mould NO. 2 in SD card would shows the same name as in the machine, as shown in Photo 4.4.
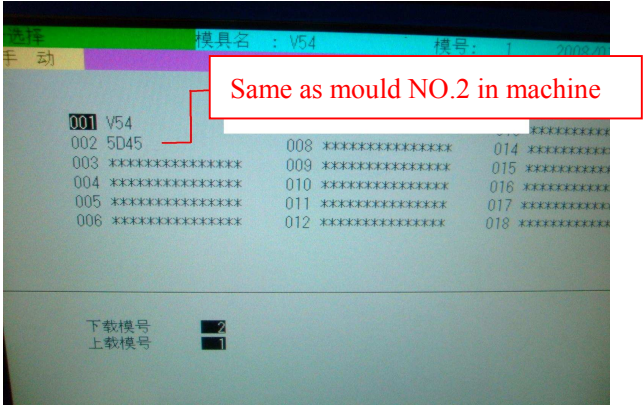

Photo 4.3

Photo 4.4

   ii.   Save all mould numbers one time.

   Input "0" in the column of "Download Mould Number", then press ENTER and CONFIRM. The LED on Card
   reader would keep flashing red. It means that the SD card is saving all the mould numbers from 1 to 150, the time
   for this processing would be about 10 minutes. After saving OK, all the mould number in SD card would be same
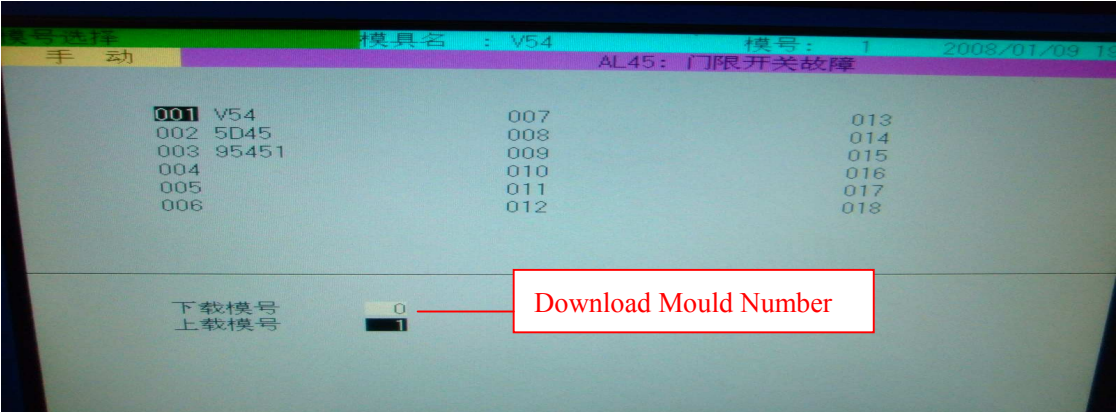   as in the machine. See Photo 4.5.

Photo 4.5

In that time, you can pull out the SD card and save all the mould number from AIMLD001.DAT to AIMLD150.DAT in your PC.

iii.   Save Production Statistics

Press "MOLD/STAT" to the production statistics page, move the cursor to the top-right SD card function choose column, choose ON or OFF as your requirement. See Photo 4.6.

If chosen ON, the statistics would be saved to the file "AIQUALIT.CSV" after every cycle, Photo 4.7.
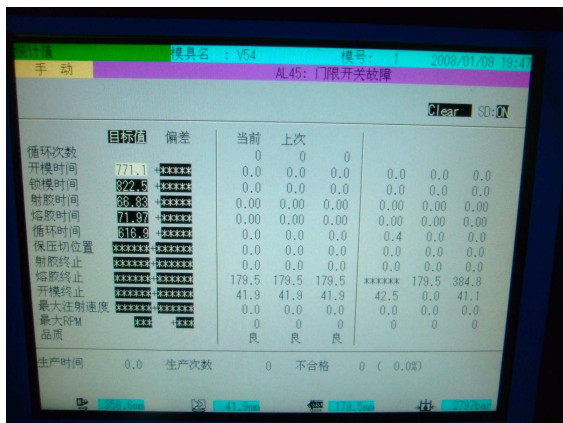

| Photo 4.6 | Photo 4.7 |

In that time, you can pull out the SD card and save the file CSV to your PC. You can open the file with EXCEL, the operation is exactly as EXCEL.

iv.   Save Alarm History

Press "Alarm History" to the page, move cursor to SD and choose ON or OFF, Photo 4.8.

If chosen ON, machine would save the alarm history with time and content to "AIALARML.CSV" file in the SD card. Photo 4.9.
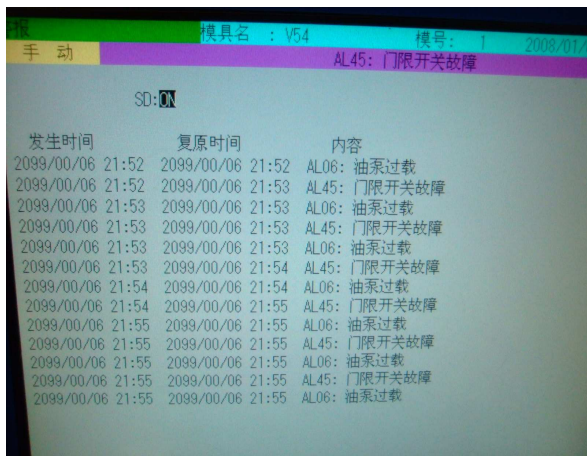

| Photo 4.8 | Photo 4.9 |

In that time, you can pull out the SD card and save the file CSV to your PC. You can open the file with EXCEL, the operation is exactly as EXCEL.

b)   Uploading data

i.   Uploading mould number one by one

Choose the mould number you need and press ENTER then CONFIRM.

For example choose number 1, press ENTER, CONFIRM. You will see the LED on card reader flash from red to green. That means the uploading is OK. After that, you will find in the controller mould number 1 is same as in SD card. Photo 4.10.

Photo 4.10

ii.   Uploading all the mould numbers at same time.

This function is in testing and we would finish it perfectly ASAP.

c) Download data

1) Copy files AI0000 and AI0001 to SD card.

2) Short the two pins with a jumper; see Photo 4.11.

3) Power ON the controller, you will find the LED on SD card reader keep flashing and also the LED on controller panel, see Photo 4.12. Same as downloading data with PC, when LED stops flashing, the processing is OK.

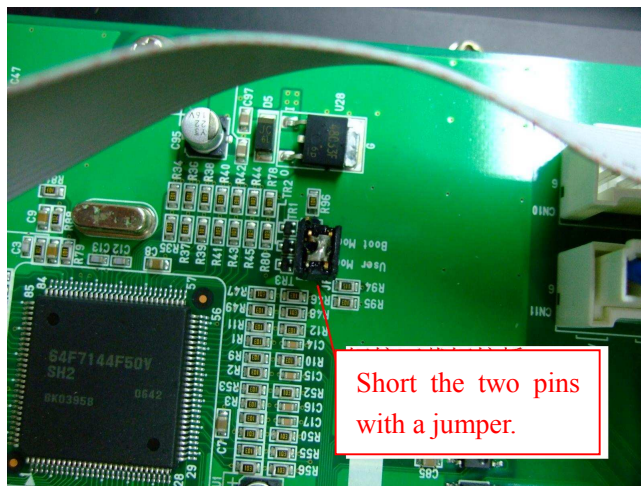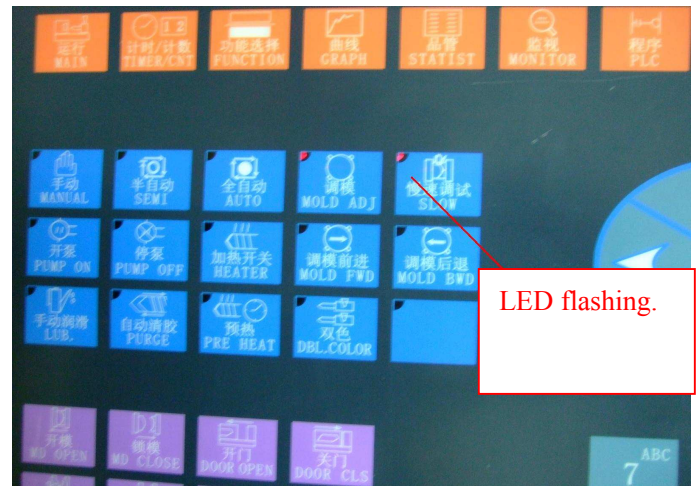Total processing would cause about 12 minutes.

Photo 4.11

Photo 4.12