

A6 N6 S6 V6

A7 N7 S7 V7

B70UF B77UF B85UF

U70_(px) U77_(px) U85 connection

with FP-001

for Program Downloading
and Calibration

Amusement

Nissr

power Saving

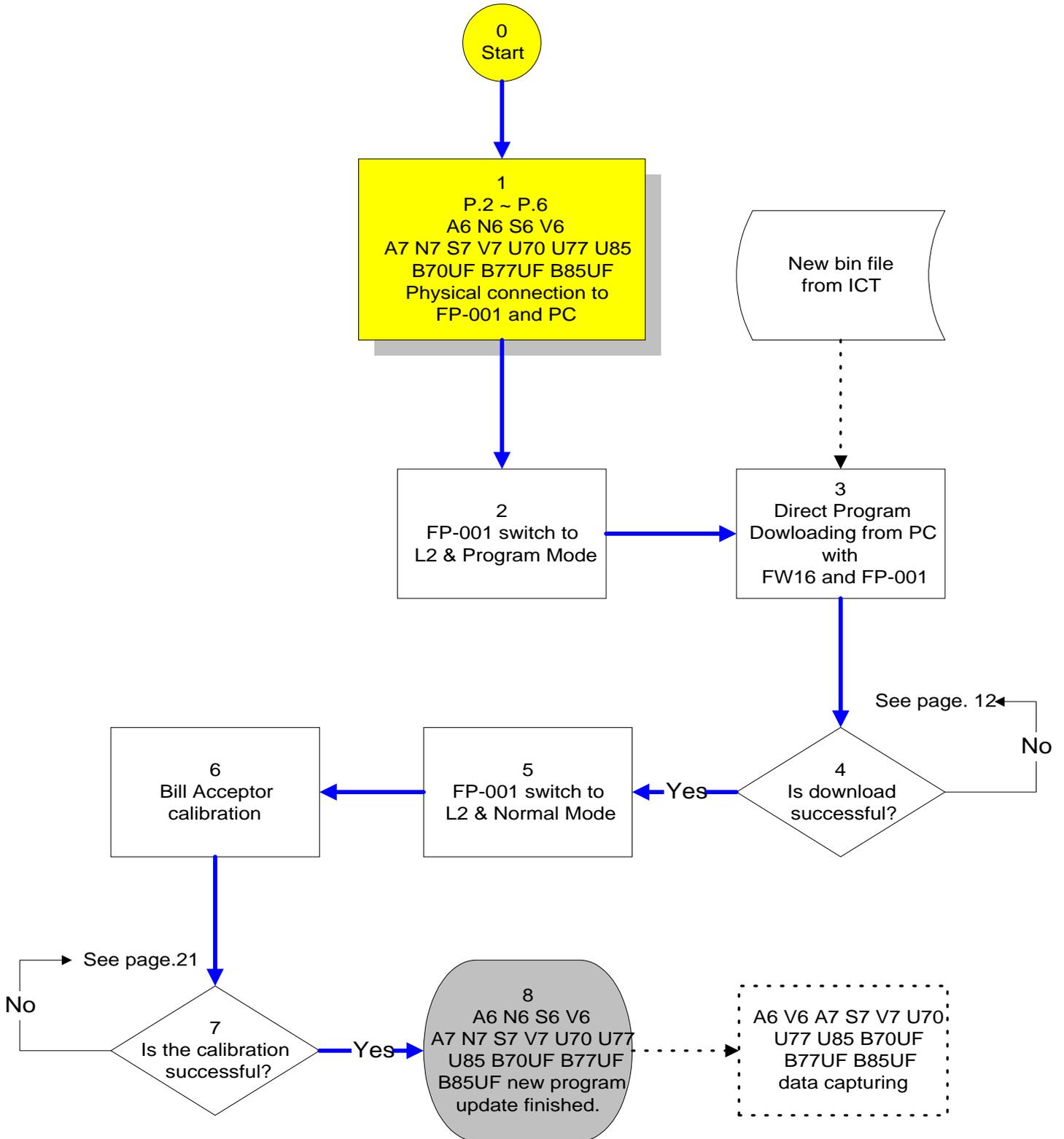
Vending

These connection also for A6 V6 A7 S7 V7

U_series UF_series Data Capturing

This flowchart is the overview from physical connection to program downloading then to calibration of U70 U77 U85 B70UF B77UF B85UF A6 N6 S6 V6 A7 N7 S7 V7.

These steps that are filled with yellow color are the subjects in this document.

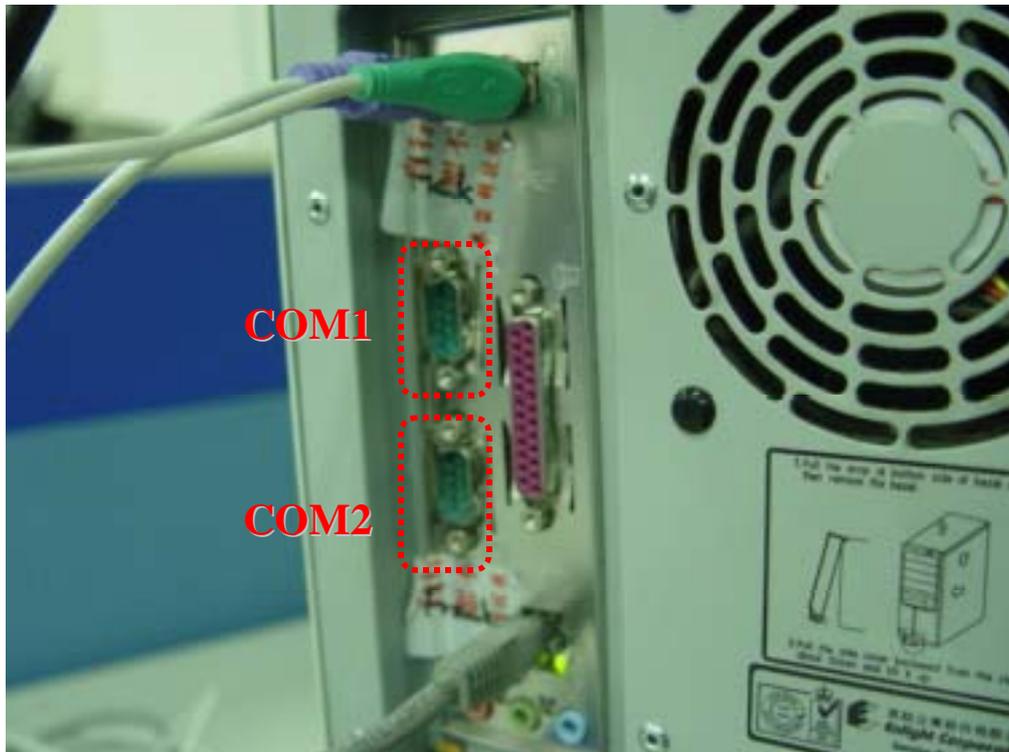


1. The physical connection for downloading, calibration and data capturing.

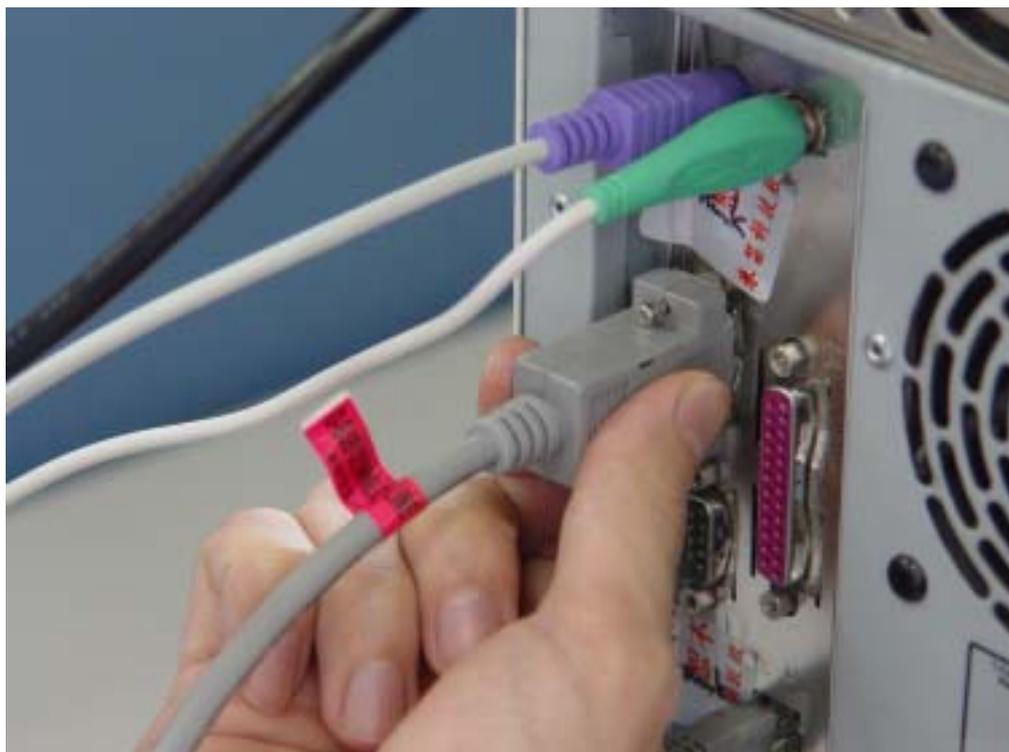
1.1 Download Board FP-001 (Top), Harness WEL-M009 (Left), WEL-7U03 (Middle) and RS232 cable WEL-087 (Right).



1.2 The location of the com port is at the back side of the PC.



1.3 Plug the WEL-087 RS232 connector to com1 or com2 on PC



1.4 Plug the other WEL-087 RS232 connector to Download Board FP-001.



1.5 Plug the harness RJ45 connector to the Download Board FP-001.

Harness WEL-M009 is for A6 N6 S6 V6 A7 N7 S7 V7.

Harness WEL-7U03 is for U70(px) U77(px) U85 B70UF B77UF B85UF.



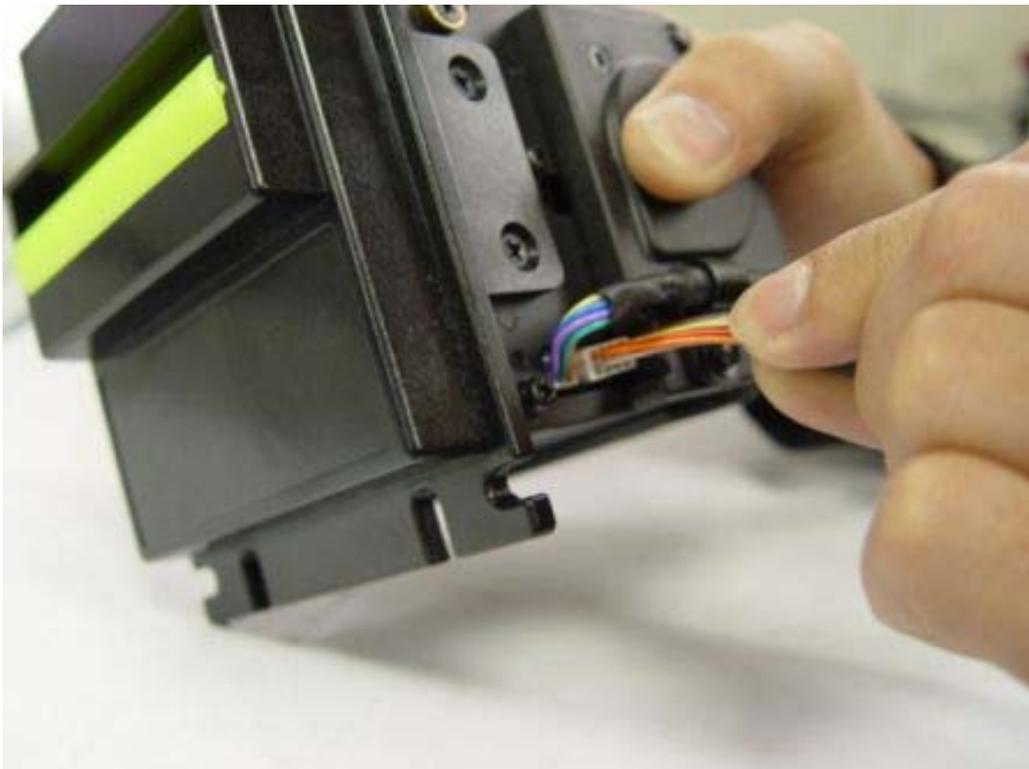
1.6 Plug the WEL-M009 another RJ45 connector to the BA firmly.

For model A6 N6 S6 V6 A7 N7 S7 V7.



(1.6) Plug the WEL-7U03 another connector to the BA firmly.

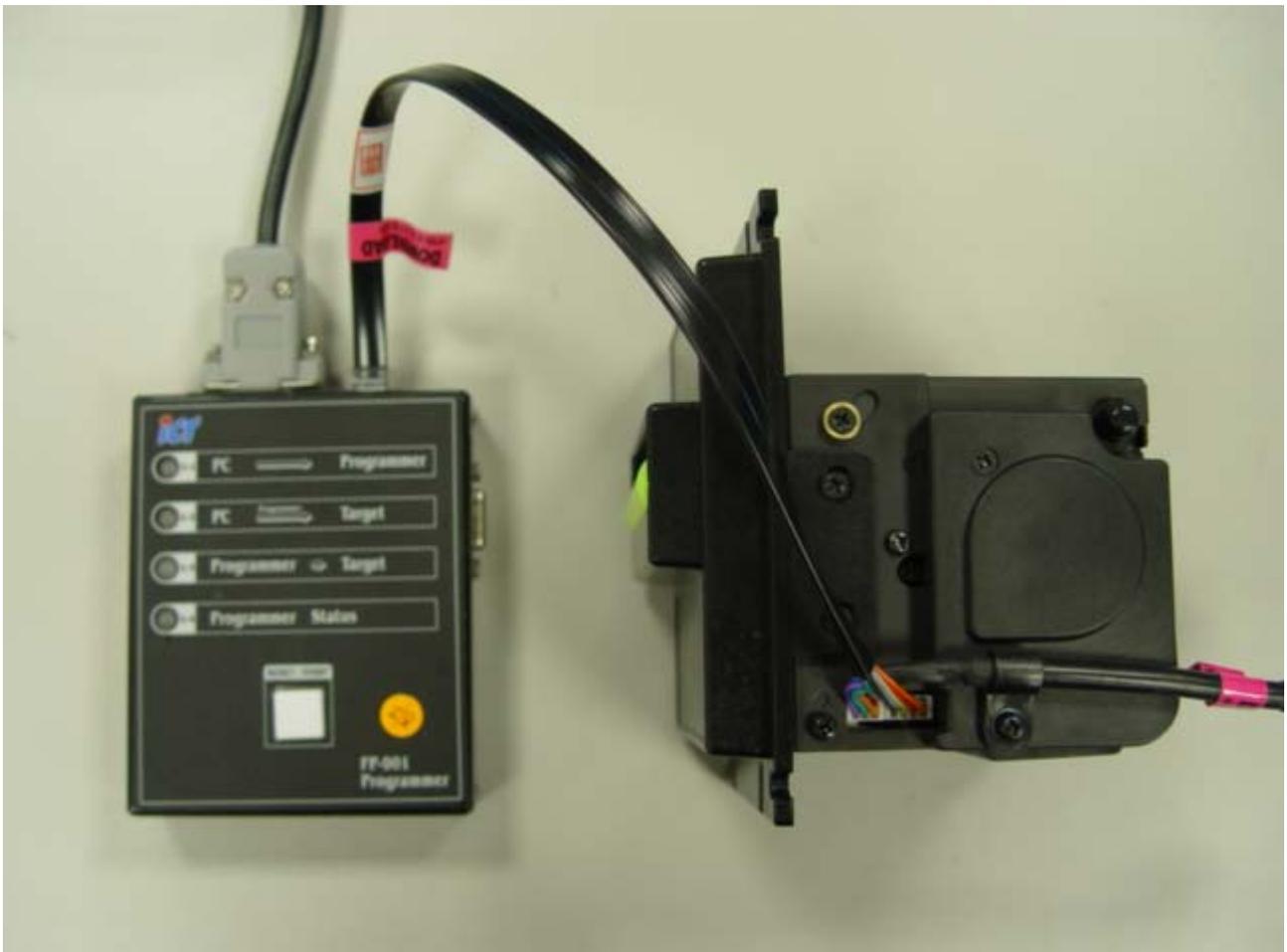
For model U70(px) U77(px) U85 B70UF B77UF B85UF



The overview of the A6 N6 S6 V6 A7 N7 S7 V7 and FP-001 connection



The overview of the U70(px) U77(px) U85 B70UF B77UF B85UF and FP-001 connection



A6 N6 S6 V6

A7 N7 S7 V7

B70UF B77UF B85UF

U70_(px) U77_(px) U85

Direct Program Download
with FP-001 using FW16

Amusement

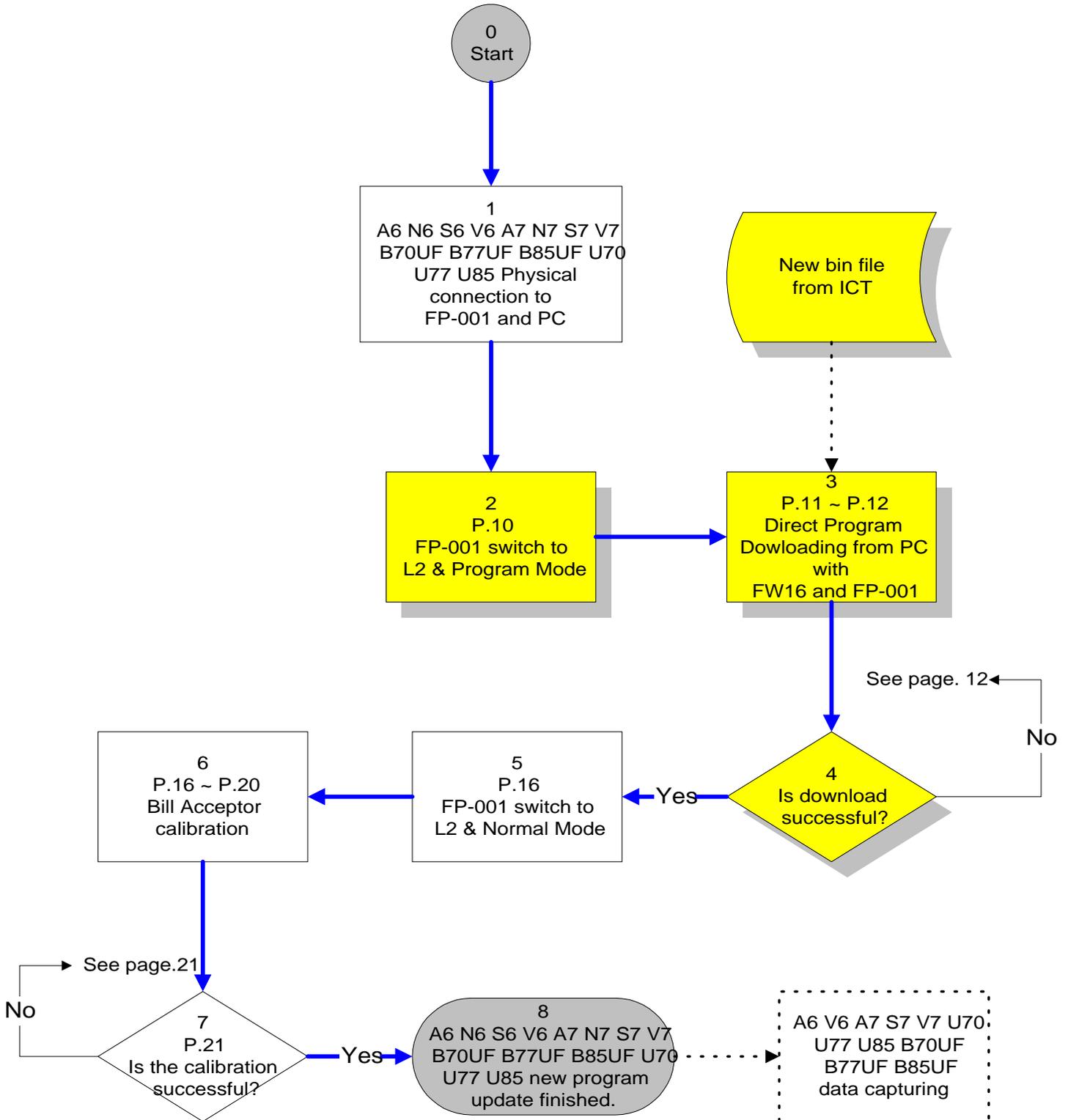
Nisr

power Saving

Vending

This flowchart is the overview from physical connection to program downloading then to calibration of A6 N6 S6 V6 A7 N7 S7 V7 B70UF B77UF B85UF U70 U77 U85.

These steps that are filled with yellow color are the subjects in this document.



2. Switch to L2 & Program mode

2.1 Set FP-001 dipswitch to L2 and Program mode.

You must do this setting before power on when doing the S6 and S7.



2.2 Press the Reset/Start Button



Attention :

S7 can also be set the eighth dip of DipSW1¹ to ON & third and fourth daps of DipSW2² to OFF.

This setting can disable the S7's sleeping function and let it alive without MDB communication.

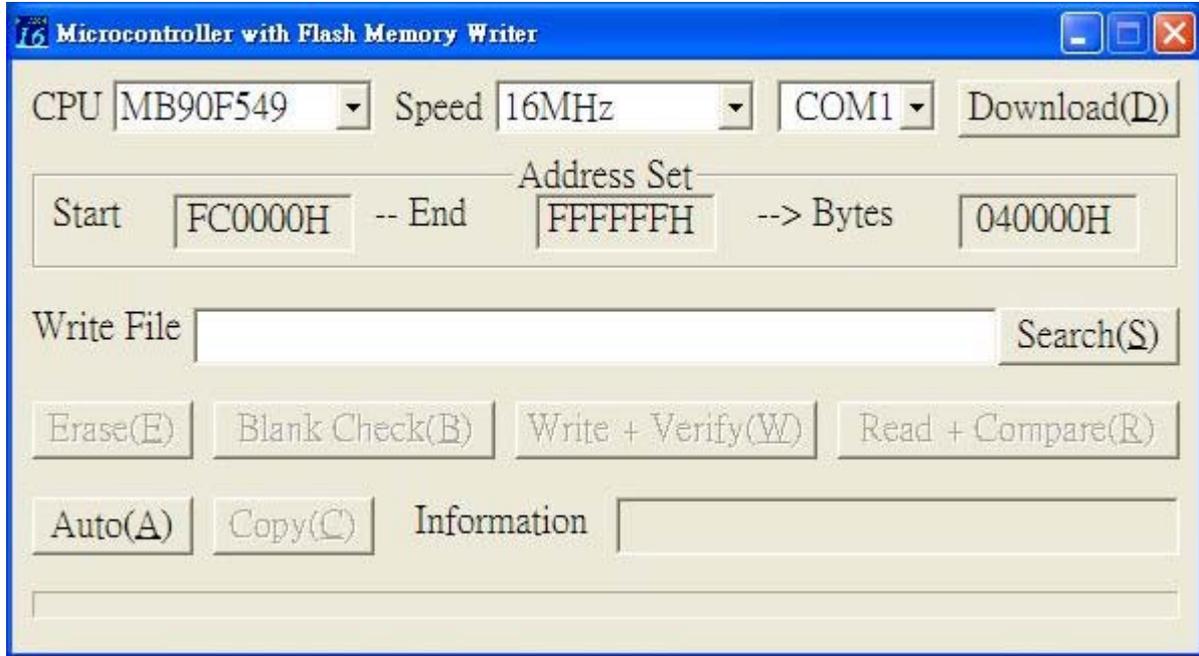
1. DipSW1 : The dipswitch setting for the bank of eight dipswitches on the side of the bill acceptor.
2. DipSW2 : The dipswitch settings for the bank of four dipswitches on the side of the bill acceptor.

3. Direct program downloading

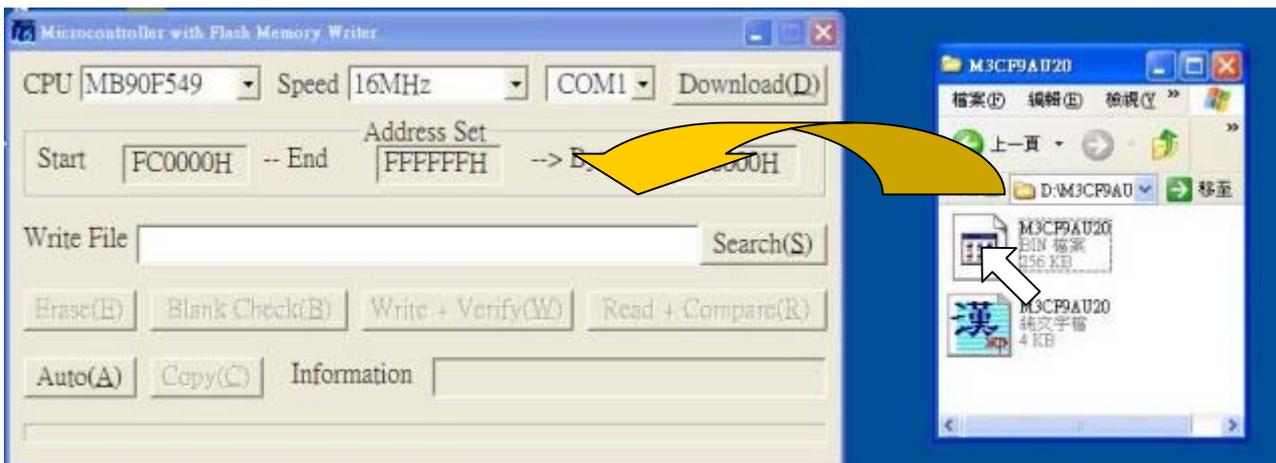
3.1 Launch the program 

Select CPU MB90F549, Speed 16MHz and Com port.

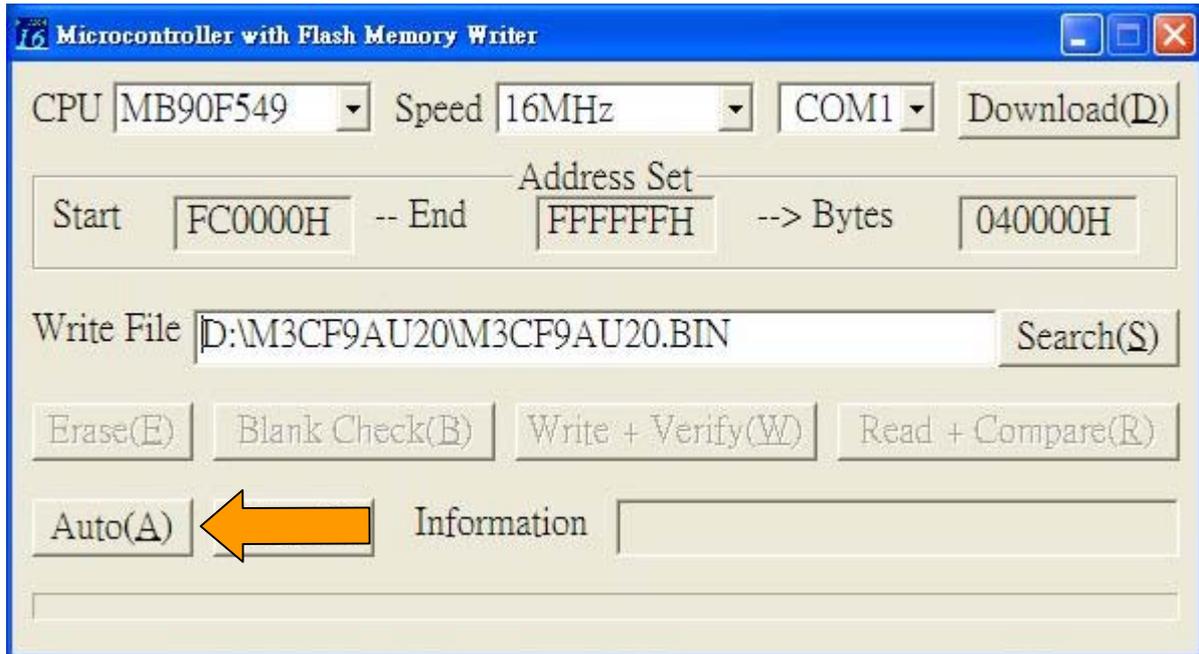
The com port varies according to the connection on the PC.



3.2 Drag the new firmware (bin file) into FW16 window.



3.3 Click the Auto(A) button.



3.4 The program will do
the Erase
Blank Check
Write and verify
Read and compare automatically.
And then show the OK message box when
the downloading is successful.
Finally, close the program FW16.



4. If the downloading procedure is failed, please check

- Is there any other program occupying the same com port.
- The harness connection is ok!!
- Press the RESET/START button then start from step 3.3 to download again.

A6 N6 S6 V6

A7 N7 S7 V7

B70UF B77UF B85UF

U70_(px) U77_(px) U85 calibration

with PC and Testing Kits

Amusement

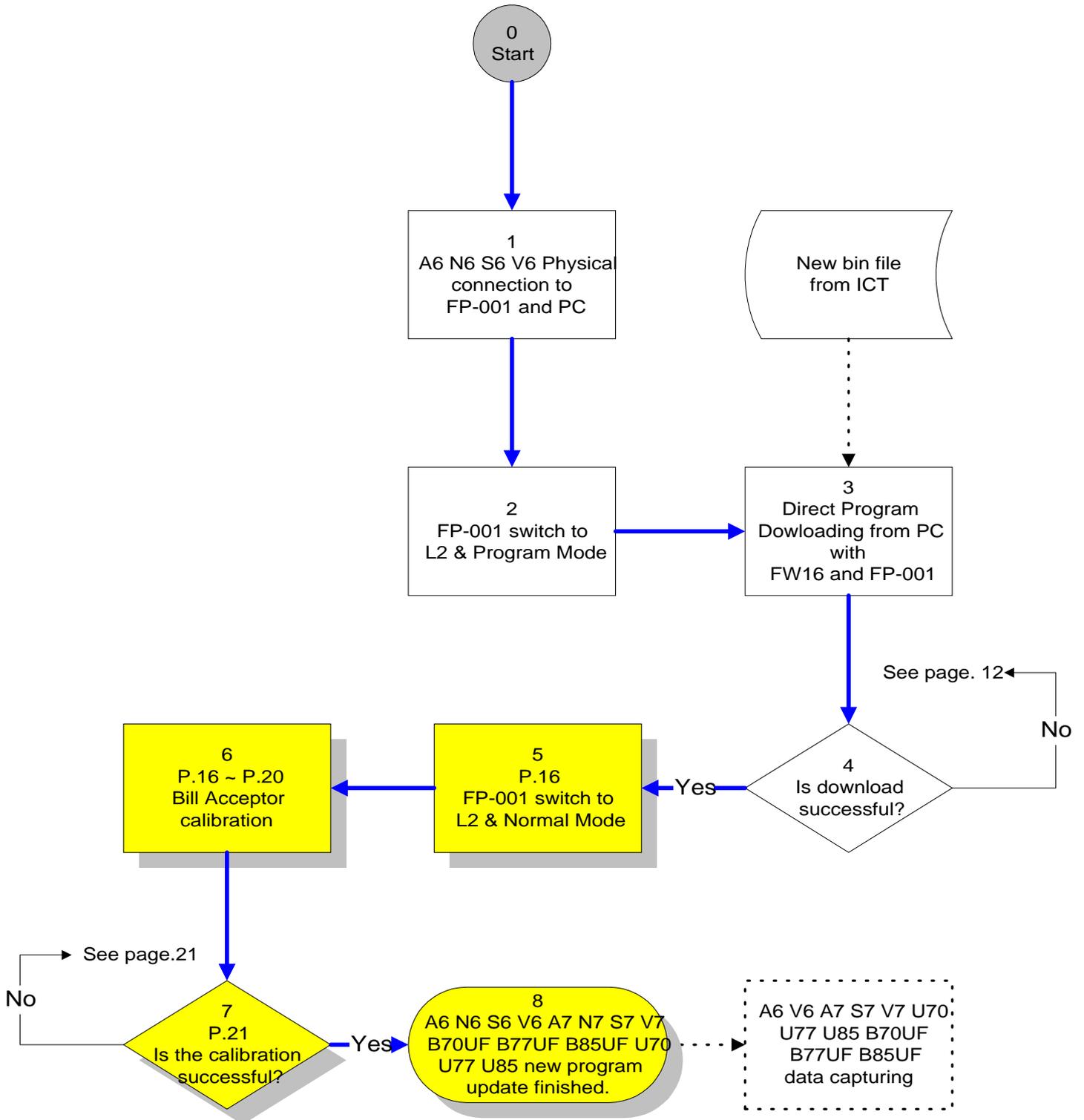
Nisr

power Saving

Vending

This flowchart is the overview from physical connection to program downloading then to calibration of U70 U77 U85 B70UF B77UF B85UF A6 N6 S6 V6 A7 N7 S7 V7.

These steps that are filled with yellow color are the subjects in this document.



5.switch to L2 & Normal mode

5.1 Set FP-001 to L2 & Normal Mode

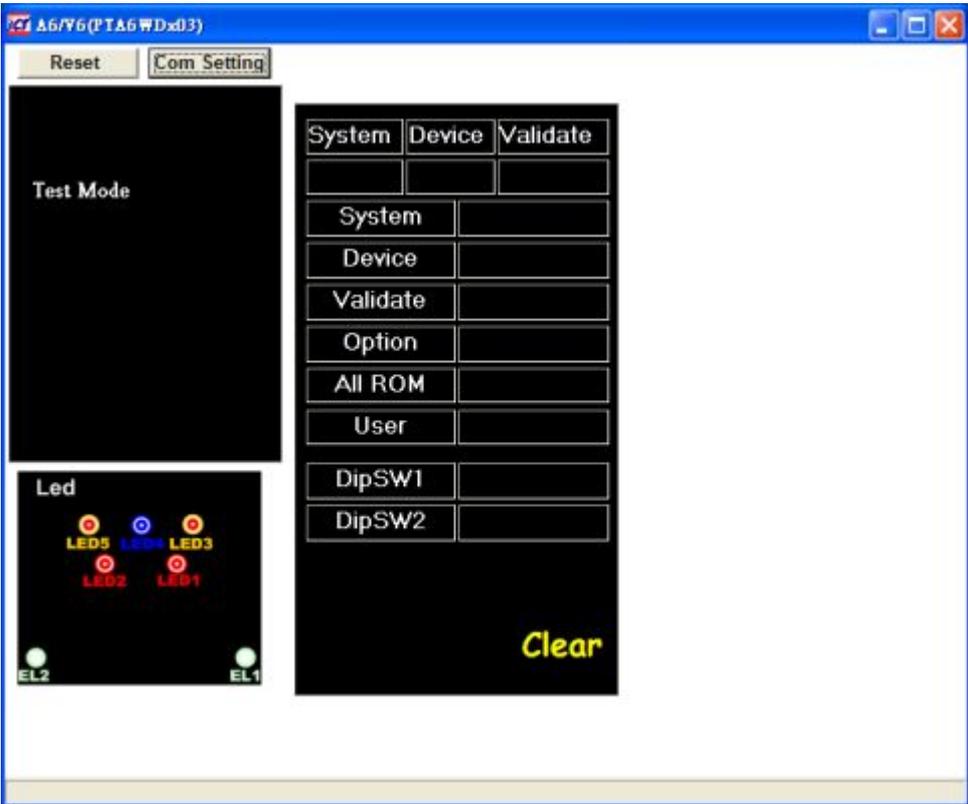


6.Calibration procedure

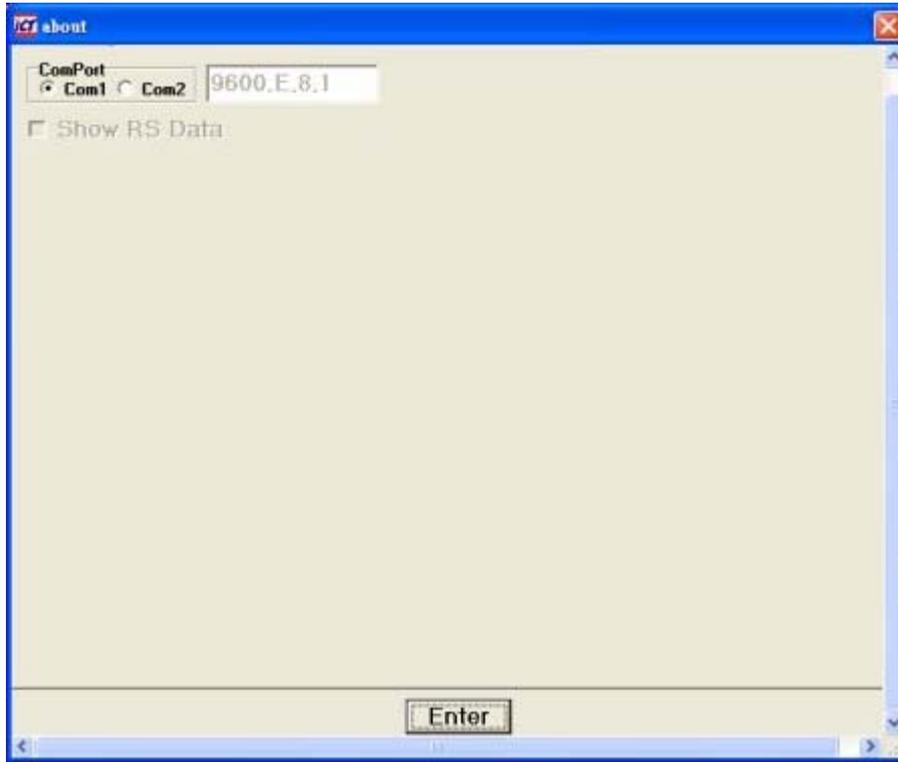
6.1 Launch the program TTA613.exe for A6 N6 S6 V6.

Launch the program TTA720.exe for A7 N7 S7 V7.

Launch the program TTU11.exe for B70UF B77UF B85UF U70 U77 U85.



6.2 Select which com port on PC.



6.3 Power on the Bill Acceptor and the kit will show the system information that is transferred from Bill Acceptor.

If there is no information shown, press the RESET/START button of FP-001.

S6 and S7 must do this before they sleep.

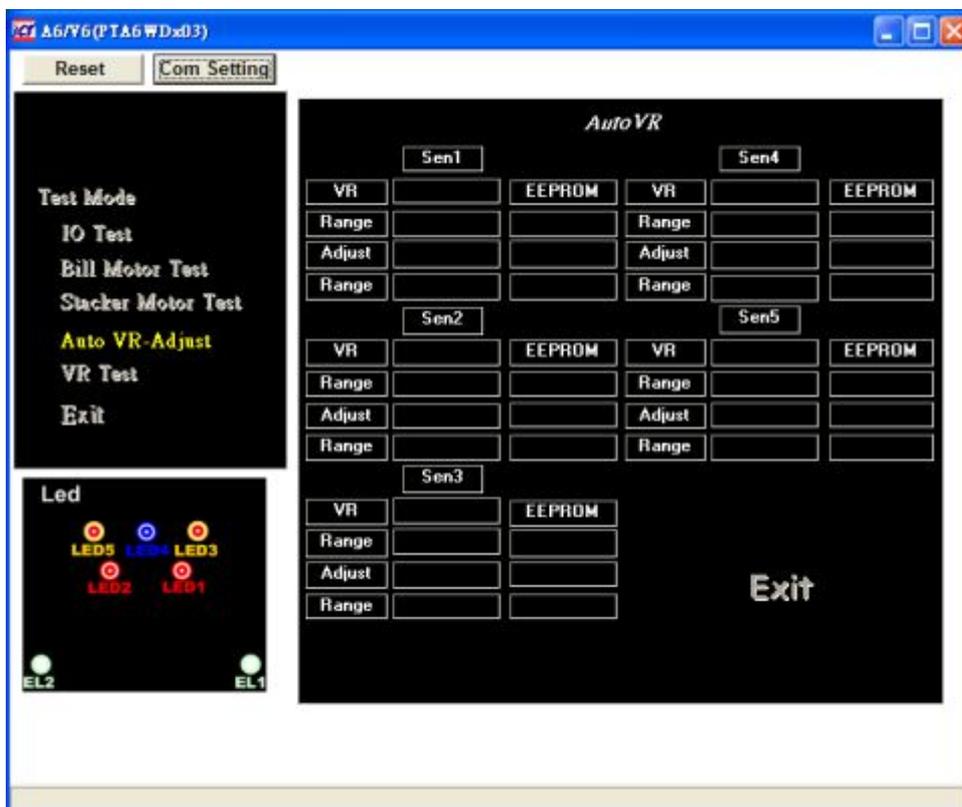


6.4 Click TestMode then tool will show the testing items.

And you must do this within 3 sec right after S6/S7 power on before they sleep.



6.5 Click the "Auto VR Adjust".



6.6 Input the A6/V6 white card for A6 N6 S6 V6.
Input the A7/V7 white card for A7 N7 S7 V7.



Please use the specific white card to do the calibration.

Input the B70UF/U70 white card for B70UF and U70.



The yellow strip side face down.

U70 B70UF

Please use the specific white card to do the calibration.

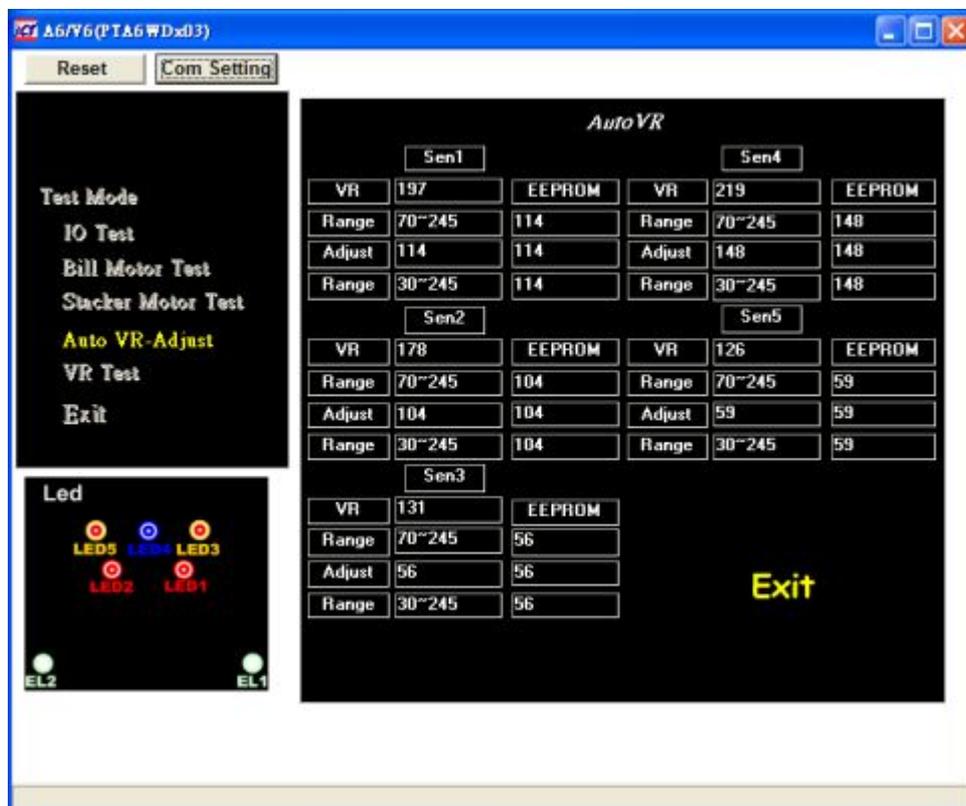
Input the B77UF/U77 white card for U77 and B77UF.
 Input the B85UF/U85 white card for U85 and B85UF.



U77 B77UF
 U85 B85UF

Please use the specific white card to do the calibration.

6.7 After calibration it will show the code and the calibration is successful. And you may close the tool.



7.If the calibration is failed

This means there are some problems during calibration.
Please click Exit and turn off BA then restart calibration procedure again.



Attention :

If the calibration is still failed

- A. Please check is there any dirt on the judgment LED or Sensor according it's number.
- B. If the LED or Sensor isn't dirty, it may be function failure.

The FW16.exe Flash Memory Writer is provided by FUJITSU LIMITED.