

## ACS40 Tune-Up Procedure

### Transmit power adjustment:

Test Setup: Please refer to Fig. 1.

1. Plug the FLASH with the test program into ACS40 controller board.
2. Set the EEPROM to writable state by setting 3J1.
3. Connect the ACS40 to MT8801 PHS tester, also connecting MT8801 to a PC loaded with TX power calibration software. The MT8801 is now controlled by the PC.

### Adjustments:

1. *Adjust the power control voltage of the variable gain amplifier, 2U3*
  - a. Connect the multi-meter to the test point “Pctrl”
  - b. Adjust the DC voltage to  $1.8 \pm 0.2V$
2. *Power detector output level adjustment.*
  - a. Connect the oscilloscope to the test point “RSSI”
  - b. Adjust the DC offset
  - c. Specification:  $500mV \pm 100mV$
3. *Run the TX Power calibration software on PC*

The software will adjust the transmitter power level by changing the gain control voltage on connector P1. The power will be changing from 2 mW to 40 mW in 2dB step, and at each step the control voltage is written into the EEPROM once the MT8801 detects the correct power level. The max. TX power level is 40 mW but the default power level is set to 30 mW. After the calibration process is completed, the EEPROM is set to protection mode.

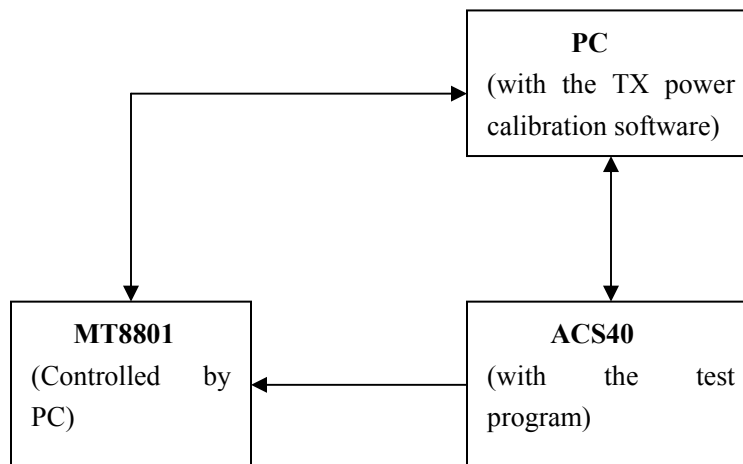


Fig. 1