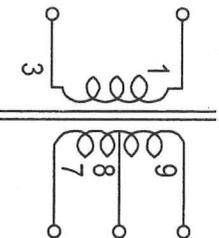


# 12. PRINTED CIRCUIT BOARD

## CIRCUIT CHECK PROCEDURE

### 1. Low voltage transformer check

The low voltage transformer is located on the P.C.B.  
 Measuring condition: Input voltage: 230V / Frequency: 50Hz



Terminal	Voltage(load)	Voltage(no load)
7-8-9	DC 13.5 V	AC 37 V

- NOTE**
1. Secondary side voltage of the low voltage transformer changes in proportion to fluctuation of power source voltage.
  2. The allowable tolerance of the secondary voltage is within  $\pm 5\%$  of nominal voltage.

### 2. Voltage Check

- Key check point

NO	CHECK POINT	REMARK
1	IC1 PIN 2, 3, 4	5VDC $\pm 5\%$
2	IC1 PIN 10	<p>T : 20 ms(50Hz)</p>
3	IC1 PIN 2 OR 3	<p>T : 250 ns(4MHz)</p>

- Check method

NO	MEASURE POINT	WAVE FORM	REMEDY	REMARK
1	MP1	DC 5V $\pm 5\%$	Replace V1, EC1, C4, C5	NO LOAD
2	MP2	DC 12V $\pm 20\%$	Replace D14, D15, EC2, R21, D12	NO LOAD

**NOTE:** Each measure point must be measured with GND points.