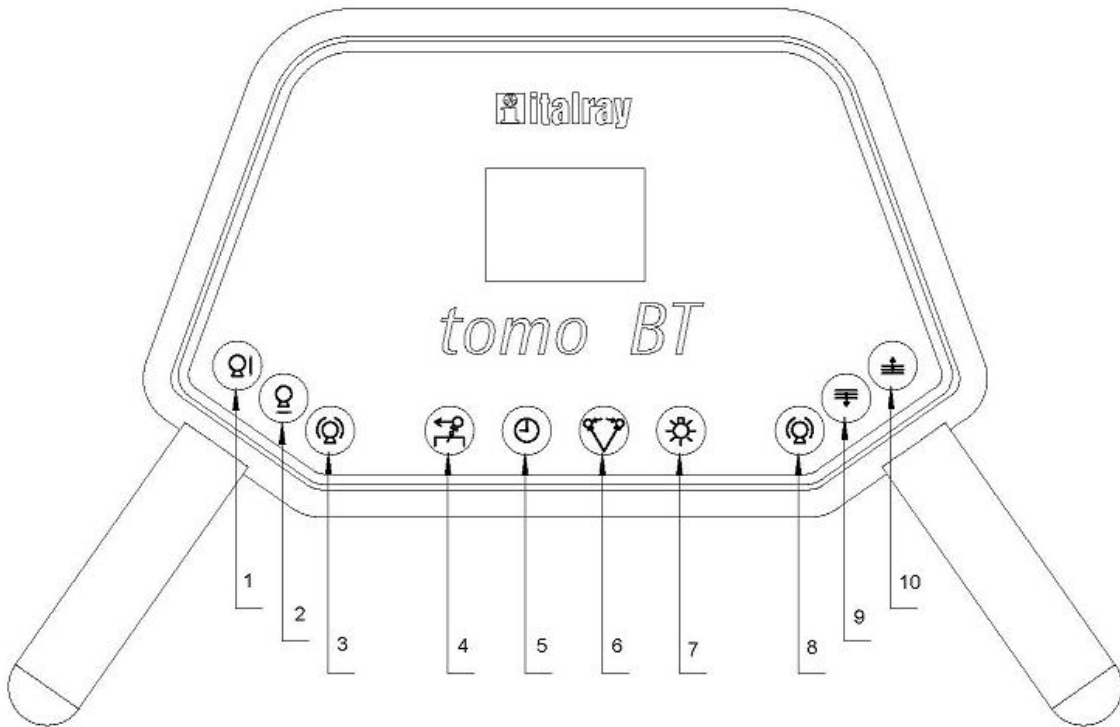


## **8. SETUP**

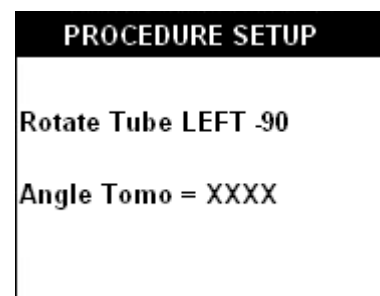
### 8. SETUP



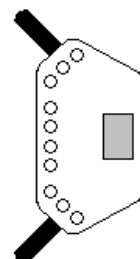
To enter SETUP press at the same time keys 1 and 2.during normal functioning of the equipment.  
Once entered in this mode, you can calibrate the values as described in the following steps.

#### 1. -90° tube stand rotation position calibration

- Display shows the following writing:



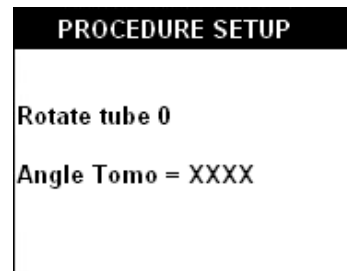
- Manually rotate tube stand until it is in the position shown in the following picture.



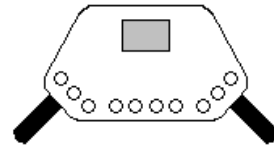
- The display will show the value of ADC “Angle tomo = XXXX” potentiometer, this value must be among 0 and 1000 .
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

## 2. - Calibration of X-ray tube arm 0° position.

- The display will show the following writing:



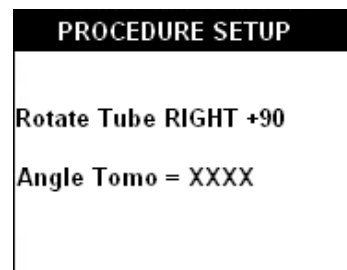
- Manually rotate tube stand until it is in the horizontal position, as shown in the following picture.



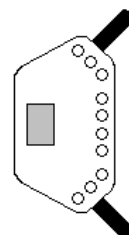
- The display will show ADC value of “Angle tomo = XXXX” potentiometer, this value must be among 1500 and 2500 .
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

## 3. - Calibration of X-ray tube arm + 90° position

- The display will show the following writing:



- Manually rotate tube stand until it is in the position shown in the following picture.



- The display will show ADC value of “Angle tomo = XXXX” potentiometer, this value must be among 3000 and 4096 .
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

**4. - Calibration of 550mm height position of table – top**

- Display will show the following:

PROCEDURE SETUP
Elevator to 550mm
Layer Elevator = XXXX

**Go to the next step without memorizing the value, push KEY 6.**

**5. - Calibration of 810mm height position of table – top**

- Display will show the following:

PROCEDURE SETUP
Elevator to 810mm
Layer Elevator = XXXX

**Go to the next step without memorizing the value, push KEY 6.**

**6. - Layer height tower calibration to 0mm**

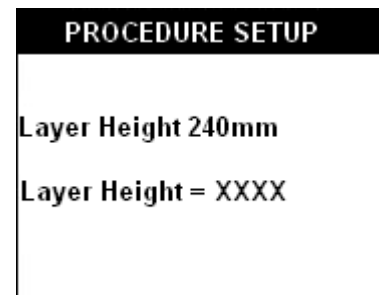
- The display will show the following writing:

PROCEDURE SETUP
Layer Height 0mm
Layer Height = XXXX

- Place tomo turret, by means of KEY 9, at its inferior limit.
- Display shows ADC value of "Tomo height = XXX", this value must be among 0 and 250.
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

#### 7. - Layer height tower calibration to 240mm

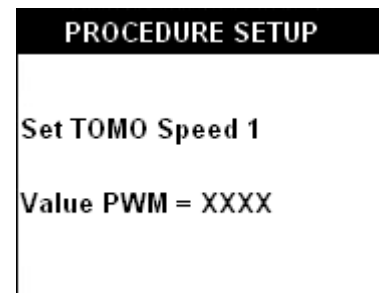
- The display will show the following writing:



- Place tomo turret, by means of KEY 10, at its upper limit.
- Display shows ADC value of "Layer height = XXX", this value must be among 750 and 1024.
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

#### 8. - Tomographic speed calibration .

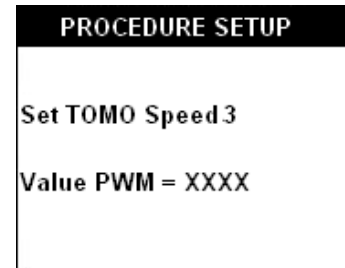
- The display will show the following writing:



- You can increase or decrease the value indicated on the display, by means of Keys 9 and 10, thus changing first speed with a proportional variation of all tomographic times of this range.
- This value is directly proportional to tension given to the motor during tomographic movement and it is included between 0(0Vdc) and 119(48Vdc); though tension is proportional to variation of the indicated value, time increase or decrease does not linearly follow this parameter. In order to be sure, we advise you to check motor voltage directly, by means of a voltmeter.
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

**9. - Tomographic speed II calibration.**

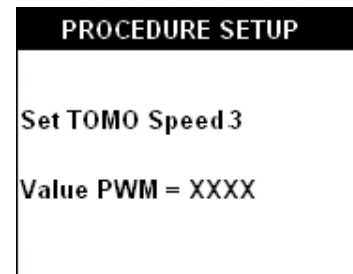
- The display will show the following writing:



- For this calibration, are valuable the same considerations made for tomo speed I adjustment .

**10. - Tomographic speed III calibration.**

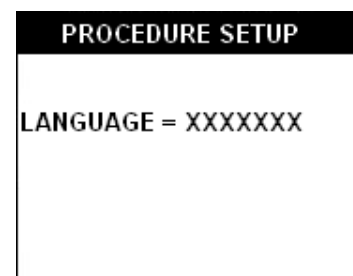
- The display will show the following writing:



- For this calibration, are valuable the same considerations made for tomo speed I adjustment .

**11. - Language selection.**

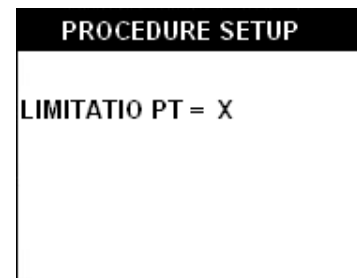
- The display will show the following writing:



- By means of KEYS 9 and 10 you can select language.
- The only options are ITALIAN or ENGLISH.
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.

**12. - PT. Limitation**

- The display will show the following writing



- By means of KEYS 9 and 10 you set the value of 0 or 1.
- The parameter MUST BE SET to 1.
- If you want to go on without storing the value, press KEY 6.
- To store the value, press KEY 4.
- Setting the unit to 0 will cause some problem whit the maximum stroke of the potter bucky, because the limitation of the tomo angle in function of the layer height is disabled.

**13. - Exit from calibrations.**

- If you store or if you go on without storing the last parameter (see point 12), the equipment turns back to work normally and keeps into consideration the new values you have set.
- If you want to exit set up without reaching the last parameter, you just need to push KEYS 1 and 2 contemporarily.