

UNIVERSITAS INTERNASIONAL BATAM

Practical work
Electrical Engineering Study Program
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IMPROVEMENT PROJECT IN XS156 LASER TRIMMING MACHINE FOR INDUCTIVE SENSOR PRODUCTS IN PT.SCHNEIDER ELECTRIC MANUFACTURING BATAM

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ABSTRACT

PT. Schneider Electric Manufacturing Batam is a company works in the electric fields which has three types of production Plants namely PEM (Product Electric Mechanical), PEL (Electronic Product) and plant sensors. To produce sensors several steps must be done from pin insecton, soldering, resin filling, laser trimming to final test. Laser trimming is the manufacturing process using a laser to adjust the operating parameters of an electronic circuit. One of the common applications using laser is to burn a small resistor, increase the resistance value or give the value to the resistance. In the laser trimming process, adjusting the product reference and also the size of different sensor diameters (08 mm to 30 mm), but still found products that fail/reject due to setting on the probe which is not appropriate, using jigs and block wire without the size of the diameter.

Therefore the need for a test procedure on the laser trimming machine in the trimming process. Some test procedures performed on the laser trimming namely: a selection of block wire according to the reference, calibration of the probe (micrometer screw), jig position adjustment and also the selection of jig to be used according to the diameter of the sensor.

Keywords : Test Procedures, Laser Trimming, Sensors, Jig (Position sensor).