## *ABSTRACT*

*The growth of technology in the present era, encouraging the advances in manufacturing industry especially aircraft. Aircraft manufacturing grows in line with the need for an airplane itself*. PT Dirgantara Indonesia (*Indonesian Aircraft Industries*) *is a company engaged in manufacturing airplanes and is the only company that manufactures aircraft in Indonesia and has implemented Just In Time* (JIT). PT Dirgantara Indonesia *cover in the design and development, manufacture, assembly, and maintenance of aircraft. Based on the observation that has been done on the helicopter part of the tail or commonly called the Tailboom on the rudder component in the assembly line. Based on the observation that has been performed, the current condition of* PT Dirgantara Indonesia *still not be able to complete the assembly process at the specified time, this occurs due to delays causing a job stop in the rudder assembly line. Delays are due to the lack of his control system on the assembly line area as well as information on the necessary parts of the assembly process. Lack of components from the previous workstation or at the earlier level, the rudder assembly process experienced a job stop. Therefore, to solve the problem of delays in components or sub-assembly the system needs control and control to control and control all components and sub-assembly in the amount and the right time. One of the tools of Just In Time is that using the electronic-based* Kanban *system as well as in automatisated as one system that can control the flow of information and the flow of material in each component or sub – assembly. The proposed result of the design of this electronic* Kanban *system to control the rudder assembly line resulted in a smooth assembly line with no delays and a job stop.*



*Keyword* : *Just In Time,* Kanban *System, Electronic* Kanban, *Delay, Job Stop*.