

ABSTRAK

Air cooling system merupakan salah satu sistem yang terdapat didalam *air conditioning system* pada *ATA Chapter 21* di *Aircraft Maintenance Manual* (AMM) yang terdapat pada *ATA Chapter 21-51-00*. Sistem ini menyediakan pengaturan aliran dan udara pendingin dari sistem pneumatik melalui sebuah *air conditioning pack* untuk menyuplai area pesawat yang bertekanan dengan udara dingin dan udara yang dikondisikan.

Metode yang dilakukan adalah observasi, dengan cara terjun langsung ke lapangan guna mengetahui secara pasti permasalahan-permasalahan yang ada, serta melakukan pencarian data dari berbagai sumber yang telah dipublikasikan secara luas maupun secara sempit seperti *Description and Operation* (DO), *Job Instruction Cards* (JIC), *Trouble Shooting Manual* (TSM), serta internet.

Setelah dilaksanakan *trouble shooting* menurut TSM 21-51-00, maka perlu dilakukan penggantian komponen *ground cooling turbo-fan* yang mengacu pada *Job Instruction Cards 21-51-58-RAI-10000*. Kemudian melakukan pengecekan ulang, untuk mengetahui bahwa kegagalan tidak muncul lagi pada *air cooling system*.

Kata Kunci: *Air cooling system, ground cooling turbo-fan, trouble shooting.*

ABSTRACT

Air cooling system is one of the systems contained in the air conditioning system in ATA Chapter 21 in the Aircraft Maintenance Manual (AMM) contained in ATA Chapter 21-51-00. This system provides regulation of the flow and cooling air of the pneumatic system through an air conditioning pack to supply areas of the aircraft which are compressed with cold air and conditioned air.

The method that used is observation, by plunging directly into the field to find out for sure the existing problems, as well as searching data from various sources that have been published widely or narrowly such as Description and Operations (DO), Job Instruction Cards (JIC), Trouble Shooting Manual (TSM), as well as the internet.

After trouble shooting is carried out according to TSM 21-51-00, it is necessary to replace the ground cooling turbo-fan components that refer to Job Instruction Cards 21-51-58-RAI-10000. Then re-checking, to find out that the failure does not appear again in the air cooling system.

Keywords: Air cooling system, ground cooling turbo-fan, trouble shooting.