



**NATIONAL
AEROSPACE
LABORATORIES**

Class : Restricted
No. of Copies : 30

Title : A REPORT ON THE ANALYSIS OF REAR FITTING
ASSEMBLY FOR LCA FIN

Author / s : M.N.Bapu Rao, S.S.Subramanya Sastry, K.Dwarakanath,
Anoop Jharia, D.K.Rani

Division : STRUCTURES

NAL Project No. : S-0-173

Document No. : PD - ST - 9703

Date of Issue : February 1997

Contents	23	Pages	7	Figures	6	Tables	1	References
-----------------	----	--------------	---	----------------	---	---------------	---	-------------------

External Participation :

Sponsor : ADA

Approval : Head, Structures Dvn.

Remarks :

Keywords: Fitting, Composite Fin, Bolted Joints

Abstract: Finite Element Analysis is carried out for the rear fitting assembly of the co-cured composite fin for LCA. The components of the assembly are the metal fitting and CFC root of the torsion box which are connected by bolted joints. The stress distribution around the bolt holes, which are of particular interest, are presented in detail and discussed.