

LABORATORY TESTS WITH THE LAB 1 VEHICLE FITTED WITH LC1 BOGIES - PART II - SECONDARY SUSPENSION AND BODY PARAMETERS

As part of the dynamic testing of laboratory coach 1, body lateral resonance tests were carried out for both damped and undamped secondary suspension conditions. Part II deals with this specific aspect of the programme. Analysis is made of the upper and lower sway and yaw modes of the body to obtain values for body mass and inertias, and secondary suspension stiffnesses. The effective lateral spring height and body centre of gravity are also found. A number of examples of receptance loci are included.