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TEST DESCRIPTION

Test No.: S8596

Test Date: 17th March 2004

Test Type: ISO 7176/19

Wheelchair: Duo Manual


Orientation: Forward Facing

Restraints: Unwin
4 Point tie down WWR/ATF/K/R
3 Point double inertia Q1R/3H/ATF/FA/WH


Occupant: 50th %ile H II

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Test Results

ISO/FDIS 7176/19

30th August 2001

Section 5.2 - Dynamic Performance Requirements

Wheelchair: DUO Manual	RESULTS
Occupant: Hybrid II Percentile (75kg)	
5.2.1 During the Test	
5.3.1 a). Horizontal ATD and wheelchair excursion limits as per limits shown in Table 3:-	
Was the horizontal movement of the test wheelchair P- Point (X wc) less than 200 mm. (± 5 mm)	YES 64mm
Was the horizontal movement of the dummy knee (X knee) less than 375 mm. (± 5 mm)	YES 292mm
Was the horizontal movement of the dummy head (X head) less than 650 mm. (± 5 mm)	YES 398mm
b). Was the ratio X knee/X wc >1.1	YES 2.79
c). Not Measured	
d). Did the batteries of powered wheelchairs, or their surrogate parts:-	
i). move outside of the wheelchair footprint	N/A
ii). move into the wheelchair user's space	N/A
5.2.2 Post Test	
5.3.2 a). Did the wheelchair remain upright on the test platform Did the ATD remain in a seated posture in the test wheelchair with a torso angle less than 45°	YES
b). Did the wheelchair securement points show visible signs of material failure	NO
c). Did any components of a mass greater than 100g become detached from the wheelchair	NO
d). Did any occupant contactable components fragment or separate with an edge of less than 2mm	NO
e). Did any primary load carrying components of the wheelchair show any visible signs of failure	NO
f). Did any 'tilt in space' locking mechanisms show signs of failure	N/A
g). Was the ATD released without the use of tools	YES
f). Was the wheelchair released from the restraint system without the use of tools	YES
h). Was the average decrease of H-Point height relative to the wheelchair platform less than 20% of the pre-test height.	YES 1%
Has the wheelchair satisfied the Dynamic Test requirements of ISO/FDIS 7176/19 of 31/August/2003	YES