

Data format and Injury Criteria Calculation

General

Technical Bulletin G 021

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PREFACE

Euro NCAP contracts a number of different test laboratories in Europe to perform the official Euro NCAP tests. This Technical Bulletin describes how the test data is to be acquired and supplied to Euro NCAP to ensure consistency throughout all laboratories.

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1. INTRODUCTION

TB 021 version 4.1 (November 2023) remains valid for HGV test data analysis and delivery. This update clarifies the requirements for test reporting across all elements of Safe Driving and Crash Avoidance pillars.

2. TEST DATA

The test naming format for Low Speed Manoeuvring Bicyclist Near Side Turn has the following structure:
Scenario_Direction_Trajectory-Run

Where:

Scenario → Scenario acronym, without spacing, hyphens or underscores. In order:

1. VUT type

- C = Car
- V = Van
- H = Heavy vehicle / truck

2. Scenario type (e.g. Bicyclist Turning)

3. Impact location i.e. 00 for front corner, 30 for 3.0 m back from front corner

Direction → Specifies VUT and test target direction in turning scenarios and lateral distance

- Ne: VUT turning to nearside, test target crossing on equal direction
- 28 and 43: lateral distance of 2.8 or 4.3 m

Trajectory → trajectory of the VUT

- 1: Borrow From Source
- 2 Large Radius Turn
- 3 Borrow From Destination

Run → Test run number

For reference, examples are listed below.

Scenario	VUT impact point	Lateral distance	Trajectory	VUT	Run number	Full name
HBTA	00	Ne28	1	VUT	1	HBTA00_Ne28_1VUT-01
HBTA	30	Ne28	1	VUT	1	HBTA30_Ne28_1VUT-01
HBTA	00	Ne43	1	VUT	1	HBTA00_Ne43_1VUT-01
HBTA	30	Ne43	1	VUT	1	HBTA30_Ne43_1VUT-01

Scenario	VUT impact point	Lateral distance	Trajectory	VUT	Run number	Full name
HBTA	00	Ne28	2	VUT	1	HBTA00_Ne28_2VUT-01
HBTA	30	Ne28	2	VUT	1	HBTA30_Ne28_2VUT-01
HBTA	00	Ne43	2	VUT	1	HBTA00_Ne43_2VUT-01
HBTA	30	Ne43	2	VUT	1	HBTA30_Ne43_2VUT-01

Scenario	VUT impact point	Lateral distance	Trajectory	VUT	Run number	Full name
HBTA	00	Ne28	3	VUT	1	HBTA00_Ne28_3VUT-01
HBTA	30	Ne28	3	VUT	1	HBTA30_Ne28_3VUT-01
HBTA	00	Ne43	3	VUT	1	HBTA00_Ne43_3VUT-01
HBTA	30	Ne43	3	VUT	1	HBTA30_Ne43_3VUT-01

ANNEX I: ACTIVE SAFETY TEST REPORT

Cover Example [ISO 17025:2005]

Test lab logo 
[AEBP/AEBB/AEBM/AEBC/LSS] TEST REPORT [22-BMW-9999-AEBP] According to protocol: Version 2.0, November 2017 [Vehicle brand and model] Tests conducted at [Test laboratory name]
Test Executed by [Name and signature] Report reviewed by [Name and signature]
BMW iX Euro NCAP – AEBP Test ReportPage 1 of 5

Cover page shall include:

- Logo – test laboratory
- Logo – Euro NCAP
- Title – Test Report
- Test method reference (Euro NCAP protocol name and reference number)

- Manufacturer and model of vehicle tested
- Euro NCAP test reference
- Test laboratory test reference
- Name and address of laboratory
- Name of customer
- Date of report
- Version of report (updates must be clearly labelled)
- Sign off – author and reviewer

The report shall summarise and evidence all aspects necessary to determine the vehicle result(s) according to the relevant test and assessment protocol. To include:

- Reference to the test object – VUT (and trailer where appropriate) body and powertrain description, VIN, reference information and pictures, dimensions, weights and loading, software version(s), abnormalities etc.
- References to measurement and test equipment – make(s) and model(s), serial number(s) calibration date(s) etc.
- Reference to the test facility – location, surface and surroundings, calibration date(s) etc.
- Date or period of tests
- Reference to environmental conditions during the testing
- A summary of the findings presenting the test results in conjunction with the vehicle manufacturer predictions (where available) for all aspects relevant to the test and results, including vehicle dynamic measurements and observations for HMI points or other awards, illustrated with supporting evidence
- Where appropriate or needed, opinions or interpretations of the test results

Each page should be identified individually (page x of y) and the report shall be validated in the in 4-eyes principle.