

## Road vehicles — Multimedia data exchange format for impact tests

*Véhicules routiers — Format d'échange de données multimédia pour les essais de choc*

### Related electronic document D

#### NHTSA Compatibility

— Version 1.6 —

No essential changes to version 1.2 .

Changes are marked in red colour.



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## RED D : NHTSA Compatibility

### D.1 File Organization

The information is stored in several different types of files, written to the NHTSA subdirectory of the test root directory.

- one 'test information file' for the whole test (**see D.1.1**)
- one 'vehicle information file' describing the vehicle(s) and/or moving barriers used in the test (**see D.1.2**)
- one optional 'barrier information file' describing any fixed barrier used in the test (**see D.1.3**)
- one optional 'occupant information file' describing any occupants used in the test (**see D.1.4**)
- one optional 'restraints information file' describing the restraints used in the test (**see D.1.5**)
- examples of NHTSA compatibility files generated for a New Car Assessment Program test (**see D.1.6**)

Each line begins with a description field with maximum 28 characters. Position 29 may be a colon. The test information shall start at position 30. 'TAB's' are not allowed. For description fields it is not required to be case-sensitive.

Comment lines may be used at any line and shall be marked by the descriptor 'Comments'. Each following line of a comment shall also begin with the descriptor 'Comments'. Comment lines should not contain information readable for computer programs.

#### D.1.1 NHTSA Test Information Addendum Descriptor File

This file contains additional information concerning the test set up and/or conditions required to make the ISO-MME impact test dataset transportable into the NHTSA EV5 data exchange format. Refer to the NHTSA Test Reference Guide (NHTSA TRG), Volume 1, Vehicle Tests, General Test information section, Version 5 (NTRGV1.PDF -- referred to as TRG in the "Remarks" column) for extended field definitions and codes. This document is available on the NHTSA web site at

<http://www-nrd.nhtsa.dot.gov/software/test-reference-guides/test-reference-guides.html>

**File Name:** 'testnumber'.TST

**Location:** NHTSA subdirectory

**Contents:**

Field descriptor:	Optional:	Test Result		Remark:
		Attribute:	Data format:	
Laboratory test ref. Number			alphanumeric	see "Test Descriptor File"
Test Type	O		alphanumeric	coded field, see TRG
Test Configuration			alphanumeric	coded field, see TRG
Track Surface	O		alphanumeric	coded field, see TRG
Track Condition	O		alphanumeric	coded field, see TRG
Closing Speed		R	float	m/s, see TRG
Impact Angle (clockwise)			integer	0 to 359 degrees, see TRG
Offset	O		float	meters, see TRG
Side Impact Point	O		float	meters, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

### D.1.2 NHTSA Vehicle Information Addendum Descriptor File

This file contains additional specification information on the test vehicle(s) and/or moving impactor(s) required to make the ISO-MME impact test dataset transportable into the NHTSA EV5 data exchange format. Refer to the NHTSA Test Reference Guide, (NHTSA TRG), Volume 1, Vehicle Tests, Vehicle Information section, Version 5 (NTRGV1.PDF -- referred to as TRG in the "Remarks" column) for extended field definitions and codes. This document is available on the NHTSA web site at

<http://www-nrd.nhtsa.dot.gov/software/test-reference-guides/test-reference-guides.html>

**File Name:** 'testnumber'.VEH

**Location:** NHTSA subdirectory

**Contents:**

Field descriptor:	Optional:	Test Result Attribute:	Data format:	Remark:
Vehicle Number 1				1 or M see RED B 'Test Object'
Vehicle Make 1			alphanumeric	free text
Vehicle Model 1			alphanumeric	free text
Vehicle Year 1			integer	4 digit year
Body Type 1			alphanumeric	coded
VIN 1			alphanumeric	free text
Engine Type 1	O		alphanumeric	coded field, see TRG
Engine Size 1	O		float	liters
Transmission Type 1	O		alphanumeric	coded field, see TRG
Vehicle Test Weight 1			integer	kgs, see TRG
Wheel Base 1			float	meters, see TRG
Vehicle Length 1			float	meters, see TRG
Vehicle Width 1			float	meters, see TRG
Vehicle Center of Gravity 1			float	meters, see TRG
Steering Column Separation 1	O		alphanumeric	coded field, see TRG
Column Collapse Mechanism 1	O		alphanumeric	coded field, see TRG
Vehicle Modifications 1	O		alphanumeric	50 characters maximum
Vehicle Speed 1		R	float	m/s, see TRG
Crab Angle 1			integer	degrees, see TRG
Principal Dir of Force 1	O		integer	degrees, see TRG
Bumper Engagement 1	O	R	alphanumeric	coded field, see TRG
Sill Engagement 1	O	R	alphanumeric	coded field, see TRG
A-Pillar Engagement 1	O	R	alphanumeric	coded field, see TRG
Damage Profile Distance 1-1	O	R	float	meters, see TRG
Damage Profile Distance 2-1	O	R	float	meters, see TRG
Damage Profile Distance 3-1	O	R	float	meters, see TRG
Damage Profile Distance 4-1	O	R	float	meters, see TRG
Damage Profile Distance 5-1	O	R	float	meters, see TRG
Damage Profile Distance 6-1	O	R	float	meters, see TRG
Vehicle Damage Index 1	O	R	alphanumeric	coded field, see TRG

Total Length Indentation 1	O	R	float	meters, see TRG
Center Damaged Area to CG 1	O	R	float	meters, see TRG
Maximum Crush Distance 1	O	R	float	meters, see TRG
Angle of Moving Cart 1	O		integer	degrees, see TRG
Veh Orientation on Cart 1	O		integer	degrees, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

The following block describes test object 2, i.e., vehicle or moving impactor 2

Vehicle Number 2			integer	2, see RED B, 'Test Object'
Vehicle Make 2			alphanumeric	free text
Vehicle Model 2			alphanumeric	free text
Vehicle Year 2			integer	4 digit year
Body Type 2	O		alphanumeric	coded
VIN 2			alphanumeric	free text
Engine Type 2	O		alphanumeric	coded field, see TRG
Engine Size 2	O		float	liters
Transmission Type 2	O		alphanumeric	coded field, see TRG
Vehicle Test Weight 2			integer	kgs, see TRG
Wheel Base 2			float	meters, see TRG
Vehicle Length 2			float	meters, see TRG
Vehicle Width 2			float	meters, see TRG
Vehicle Center of Gravity 2			float	meters, see TRG
Steering Column Separation 2	O		alphanumeric	coded field, see TRG
Column Collapse Mechanism 2	O		alphanumeric	coded field, see TRG
Vehicle Modifications 2	O		alphanumeric	50 characters maximum
Vehicle Speed 2		R	float	m/s, see TRG
Crab Angle 2			integer	degrees, see TRG
Principal Dir of Force 2	O		integer	degrees, see TRG
Bumper Engagement 2	O	R	alphanumeric	coded field, see TRG
Sill Engagement 2	O	R	alphanumeric	coded field, see TRG
A-Pillar Engagement 2	O	R	alphanumeric	coded field, see TRG
Damage Profile Distance 1-2	O	R	float	meters, see TRG
Damage Profile Distance 2-2	O	R	float	meters, see TRG
Damage Profile Distance 3-2	O	R	float	meters, see TRG
Damage Profile Distance 4-2	O	R	float	meters, see TRG
Damage Profile Distance 5-2	O	R	float	meters, see TRG
Damage Profile Distance 6-2	O	R	float	meters, see TRG
Vehicle Damage Index 2	O	R	alphanumeric	coded field, see TRG
Total Length Indentation 2	O	R	float	meters, see TRG
Center Damaged Area to CG 2	O	R	float	meters, see TRG

Maximum Crush Distance 2	O	R	float	meters, see TRG
Angle of Moving Cart 2	O		integer	degrees, see TRG
Veh Orientation on Cart 2	O		integer	degrees, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

### D.1.3 NHTSA Barrier Information Addendum Descriptor File

This file contains additional information concerning any fixed barrier struck in a vehicle impact test required to make the ISO-MME impact test dataset transportable into the NHTSA EV5 data exchange format. Refer to the NHTSA Test Reference Guide (NHTSA TRG), Volume 1, Vehicle Tests, Barrier Information, Version 5 for extended field definitions and codes. This document is available on the NHTSA web site at

<http://www-nrd.nhtsa.dot.gov/software/test-reference-guides/test-reference-guides.html>

**File Name:** 'testnumber'.BAR

**Location:** NHTSA subdirectory

**Contents:**

Field descriptor:	Optional:	Test Result Attribute:	Data format:	Remark:
Barrier			B, K, or P	see RED B 'Test Object'
Barrier Shape	O		alphanumeric	coded field, see TRG
Rigid or Deformable Barrier	O		alphanumeric	coded field, see TRG
Angle of Fixed Barrier	O		integer	degrees, see TRG
Diameter of Pole Barrier	O		float	meters, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

### D.1.4 NHTSA Occupant Information Addendum Descriptor File

This file contains additional test specification data required to make the ISO-MME impact test dataset transportable into the NHTSA EV5 data exchange format. Refer to the NHTSA Test Reference Guide (NHTSA TRG), Volume 1, Vehicle Tests, Occupant Information section, Version 5 for extended field definitions and codes. This document is available on the NHTSA web site at

<http://www-nrd.nhtsa.dot.gov/software/test-reference-guides/test-reference-guides.html>

**File Name:** 'testnumber'.OCC

**Location:** NHTSA subdirectory

**Contents:**

Field descriptor:	Optional:	Test Result Attribute:	Data format:	Remark:
Vehicle Reference Number 1			integer	1 or 2 see RED B 'Test Object'
Occupant Seat Position 1			alphanumeric	see RED B 'Seat Position'
Fine Location 3/Dummy Type 1			alphanumeric	see RED B 'Fine Location 3'
Dummy Manufacturer/Ser No 1	O		alphanumeric	50 characters maximum
Dummy Modifications 1	O		alphanumeric	50 characters maximum

Head to Windshield Header 1	O		float	meters, see TRG
Head to Windshield 1	O		float	meters, see TRG
Head to Side Header 1	O		float	meters, see TRG
Head to Side Window 1	O		float	meters, see TRG
Chest to Dash 1	O		float	meters, see TRG
Chest to Steering Wheel 1	O		float	meters, see TRG
Arm to Door 1	O		float	meters, see TRG
Hip to Door 1	O		float	meters, see TRG
Knees to Dash 1	O		float	meters, see TRG
Head to Seatback 1	O		float	meters, see TRG
Neck to Seatback 1	O		float	meters, see TRG
Chest to Seatback 1	O		float	meters, see TRG
Knee to Seatback 1	O		float	meters, see TRG
Seat Track Position 1			alphanumeric	coded field, see TRG
1st Contact for Head 1	O	R	alphanumeric	coded field, see TRG
2nd Contact for Head 1	O	R	alphanumeric	coded field, see TRG
1st Contact for Chest/Abdo 1	O	R	alphanumeric	coded field, see TRG
2nd Contact for Chest/Abdo 1	O	R	alphanumeric	coded field, see TRG
1st Contact for Legs 1	O	R	alphanumeric	coded field, see TRG
2nd Contact for Legs 1	O	R	alphanumeric	coded field, see TRG
Head Injury Criterion HIC 1	O	R	integer	nondimensional
Lo HIC Time Interval 1	O	R	float	seconds
Up HIC Time Interval 1	O	R	float	seconds
Thorax Peak Accel (CLIP3M) 1	O	R	float	m/sec <sup>2</sup>
L Femur Peak Load 1	O	R	float	Newtons
R Femur Peak Load 1	O	R	float	Newtons
Chest Severity Index 1	O	R	integer	nondimensional
Lap Belt Peak Load 1	O	R	integer	Newtons
Shoulder Belt Peak Load 1	O	R	integer	Newtons
Thoracic Trauma Index 1	O	R	float	nondimensional
Pelvic Acceleration 1	O	R	float	m/sec <sup>2</sup>
Comments	O		alphanumeric	multiple lines, 70 char maximum
.....				

Comment – The following block describes test occupant m (last vehicle occupant)

Vehicle Reference Number m		alphanumeric	1 or 2, see RED B 'Test Object'
Occupant Seat Position m		alphanumeric	see RED B 'Seat Position'
Fine Location 3/Dummy Type m		alphanumeric	see RED B 'Fine Location 3'
Dummy Manufacturer/Ser No m	O	alphanumeric	50 characters maximum
Dummy Modifications m	O	alphanumeric	50 characters maximum

Head to Windshield Header m	O		float	meters, see TRG
Head to Windshield m	O		float	meters, see TRG
Head to Side Header m	O		float	meters, see TRG
Head to Side Window m	O		float	meters, see TRG
Chest to Dash m	O		float	meters, see TRG
Chest to Steering Wheel m	O		float	meters, see TRG
Arm to Door m	O		float	meters, see TRG
Hip to Door m	O		float	meters, see TRG
Knees to Dash m	O		float	meters, see TRG
Head to Seatback m	O		float	meters, see TRG
Neck to Seatback m	O		float	meters, see TRG
Chest to Seatback m	O		float	meters, see TRG
Knee to Seatback m	O		float	meters, see TRG
Seat Track Position m			alphanumeric	coded field, see TRG
1st Contact for Head m	O	R	alphanumeric	coded field, see TRG
2nd Contact for Head m	O	R	alphanumeric	coded field, see TRG
1st Contact for Chest/Abdo m	O	R	alphanumeric	coded field, see TRG
2nd Contact for Chest/Abdo m	O	R	alphanumeric	coded field, see TRG
1st Contact for Legs m	O	R	alphanumeric	coded field, see TRG
2nd Contact for Legs m	O	R	alphanumeric	coded field, see TRG
Head Injury Criterion HIC m	O	R	integer	nondimensional
Lo HIC Time Interval m	O	R	float	seconds
Up HIC Time Interval m	O	R	float	seconds
Thorax Peak Accel (CLIP3M) m	O	R	float	m/sec <sup>2</sup>
L Femur Peak Load m	O	R	float	Newtons
R Femur Peak Load m	O	R	float	Newtons
Chest Severity Index m	O	R	integer	nondimensional
Lap Belt Peak Load m	O	R	integer	Newtons
Shoulder Belt Peak Load m	O	R	integer	Newtons
Thoracic Trauma Index m	O	R	float	nondimensional
Pelvic Acceleration m	O	R	float	m/sec <sup>2</sup>
Comments	O		alphanumeric	multiple lines, 70 char maximum

**D.1.5 NHTSA Occupant Restraint Information Addendum Descriptor File**

This file contains additional information concerning the restraints used for each occupant in a given impact test required to make the ISO-MME impact test dataset transportable into the NHTSA EV5 data exchange format. Refer to the NHTSA Test Reference Guide (NHTSA TRG), Volume 1, Vehicle Tests, Restraint Information section, Version 5 for extended field definitions and codes. This document is available on the NHTSA web site at

<http://www-nrd.nhtsa.dot.gov/software/test-reference-guides/test-reference-guides.html>

**File Name:** 'testnumber'.RST

**Location:** NHTSA subdirectory

**Contents:**

Field descriptor:	Optional:	Test Result Attribute:	Data format:	Remark:
Vehicle Reference Number 1			integer	1 or 2, see TRG
Occupant Seat Position 1			alphanumeric	see RED B 'Seat Position'
Restraint Mount 1	O		alphanumeric	coded field, see TRG
Restraint Type 1			alphanumeric	coded field, see TRG
Restraint Deployed 1	O	R	alphanumeric	coded field, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

.....

Comment – The following block describes occupant restraint m (last occupant's last restraint)

Vehicle Reference Number m			integer	1 or 2, see TRG
Occupant Seat Position m			alphanumeric	see RED B 'Seat Position'
Restraint Mount m	O		alphanumeric	coded field, see TRG
Restraint Type m			alphanumeric	coded field, see TRG
Restraint Deployed m	O	R	alphanumeric	coded field, see TRG
Comments	O		alphanumeric	multiple lines, 70 char maximum

## D.1.6 Examples of NHTSA Addendum Descriptor Files

### D.1.6.1 Example of NHTSA Test Information Addendum Descriptor File

```

Comments                : V3239.TST
Comments                : GENERAL TEST INFORMATION -----
Laboratory test ref. Number : MY5803
Test Type               : NCA
Test Configuration      : VTB
Track Surface           : CON
Track Condition         : DRY
Closing Speed           : 15.52
Impact Angle            : 0
Offset                  : 0
Side Impact Point       : NOVALUE
Comments                : NEW CAR ASSESSMENT PROGRAM TEST

```

### D.1.6.2 Example of NHTSA Vehicle Information Addendum Descriptor File

```

Comments                : V3239.VEH
Comments                : VEHICLE INFORMATION -----
Vehicle Number 1        : 1
Vehicle Make 1          : VOLKSWAGEN
Vehicle Model 1         : PASSAT
Vehicle Year 1          : 2000
Body Type 1             : 4S
VIN 1                   : WVWMA23B1YP118035
Engine Type 1           : 4CIF
Engine Size 1           : 1.8
Transmission Type 1     : AF
Vehicle Test Weight 1   : NOVALUE
Wheel Base 1            : 2.715
Vehicle Length 1       : 4.650
Vehicle Width 1         : NOVALUE
Vehicle Center of Gravity 1 : 1.222
Steering Column Separation 1 : NOVALUE
Column Collapse Mechanism 1 : NOVALUE
Vehicle Modifications 1  : NONE
Vehicle Speed 1         : 15.52
Crab Angle 1            : 0
Principal Dir of Force 1 : 0
Bumper Engagement 1     : NOVALUE

```

Sill Engagement 1	: NOVALUE
A-Pillar Engagement 1	: NOVALUE
Damage Profile Distance 1-1	: NOVALUE
Damage Profile Distance 2-1	: NOVALUE
Damage Profile Distance 3-1	: NOVALUE
Damage Profile Distance 4-1	: NOVALUE
Damage Profile Distance 5-1	: NOVALUE
Damage Profile Distance 6-1	: NOVALUE
Vehicle Damage Index 1	: NOVALUE
Total Length Indentation 1	: NOVALUE
Center Damaged Area to CG 1	: NOVALUE
Maximum Crush Distance 1	: NOVALUE
Angle of Moving Cart 1	: NOVALUE
Veh Orientation on Cart 1	: NOVALUE
Comments	: NO COMMENTS

#### D.1.6.3 Example of NHTSA Barrier Information Addendum Descriptor File

Comments	: V3239.BAR
Comments	: BARRIER INFORMATION -----
Barrier	: B
Barrier Shape	: LCB
Rigid or Deformable Barrier	: R
Angle of Fixed Barrier	: 0
Diameter of Pole Barrier	: NOVALUE
Comments	: NO DATA COLLECTED ON A1, B1, C1, D1, D2, D3,
Comments	: D4, D5, D6, D7, D8, D9

#### D.1.6.4 Example of NHTSA Occupant Information Addendum Descriptor File

Comments	: V3239.OCC
Comments	: DRIVER OCCUPANT INFORMATION -----
Vehicle Reference Number 1	: 1
Occupant Seat Position 1	: 1
Fine Location 3/Dummy Type 1	: H3
Dummy Manufacturer/Ser No 1	: VECTOR, S/N:034
Dummy Modifications 1	: UNMODIFIED
Head to Windshield Header 1	: .350
Head to Windshield 1	: .635
Head to Side Header 1	: .245

Head to Side Window 1	: .325
Chest to Dash 1	: .515
Chest to Steering Wheel 1	: .320
Arm to Door 1	: .126
Hip to Door 1	: .154
Knees to Dash 1	: .220
Head to Seatback 1	: NOVALUE
Neck to Seatback 1	: NOVALUE
Chest to Seatback 1	: NOVALUE
Knee to Seatback 1	: NOVALUE
Seat Track Position 1	: RW
1st Contact for Head 1	: AB
2nd Contact for Head 1	: NO
1st Contact for Chest/Abdo 1	: AB
2nd Contact for Chest/Abdo 1	: NO
1st Contact for Legs 1	: DP
2nd Contact for Legs 1	: SC
Head Injury Criterion HIC 1	: 377
Lo HIC Time Interval 1	: .0528
Up HIC Time Interval 1	: .0887
Thorax Peak Accel (CLIP3M) 1	: 426.59
L Femur Peak Load 1	: 3534
R Femur Peak Load 1	: 4642
Chest Severity Index 1	: NOVALUE
Lap Belt Peak Load 1	: 6474
Shoulder Belt Peak Load 1	: 5109
Thoracic Trauma Index 1	: NOVALUE
Pelvic Acceleration 1	: NOVALUE
Comments	: NO COMMENTS
Comments	:
Comments	: RIGHT FRONT PASSENGER INFORMATION -----
Vehicle Reference Number 2	: 1
Occupant Seat Position 2	: 3
Fine Location 3/Dummy Type 2	: H3
Dummy Manufacturer/Ser No 2	: VECTOR, S/N:035
Dummy Modifications 2	: NONE
Head to Windshield Header 2	: .365
Head to Windshield 2	: .655
Head to Side Header 2	: .230
Head to Side Window 2	: .315
Chest to Dash 2	: .540

Chest to Steering Wheel 2	: NOVALUE
Arm to Door 2	: .060
Hip to Door 2	: .148
Knees to Dash 2	: .225
Head to Seatback 2	: NOVALUE
Neck to Seatback 2	: NOVALUE
Chest to Seatback 2	: NOVALUE
Knee to Seatback 2	: NOVALUE
Seat Track Position 2	: NOVALUE
1st Contact for Head 2	: AB
2nd Contact for Head 2	: NO
1st Contact for Chest/Abdo 2	: AB
2nd Contact for Chest/Abdo 2	: NO
1st Contact for Legs 2	: DP
2nd Contact for Legs 2	: NO
Head Injury Criterion HIC 2	: 318
Lo HIC Time Interval 2	: .0577
Up HIC Time Interval 2	: .0936
Thorax Peak Accel (CLIP3M) 2	: 399.1
L Femur Peak Load 2	: 4278
R Femur Peak Load 2	: 1408
Chest Severity Index 2	: NOVALUE
Lap Belt Peak Load 2	: 6563
Shoulder Belt Peak Load 2	: 4042
Thoracic Trauma Index 2	: NOVALUE
Pelvic Acceleration 2	: NOVALUE
Comments	: NO COMMENTS

#### D.1.6.5 Example of NHTSA Restraint Information Addendum Descriptor File

Comments	: V3239.RST
Comments	
Comments	: DRIVER RESTRAINT #1 INFORMATION -----
Vehicle Reference Number 1	: 1
Occupant Seat Position 1	: 1
Restraint Mount 1	: BC
Restraint Type 1	: 3PT
Restraint Deployed 1	: NA
Comments	: DRIVER 3 POINT BELT
Comments	

```

Comments                                : DRIVER RESTRAINT #2 INFORMATION -----
Vehicle Reference Number 2              : 1
Occupant Seat Position 2                : 1
Restraint Mount 2                      : SW
Restraint Type 2                       : ABG
Restraint Deployed 2                   : DP
Comments                               : DRIVER AIR BAG
Comments
Comments                               : PASSENGER RESTRAINT #1 INFORMATION -----
Vehicle Reference Number 3              : 1
Occupant Seat Position 3                : 3
Restraint Mount 3                      : BC
Restraint Type 3                       : 3PT
Restraint Deployed 3                   : NA
Comments                               : PASSENGER 3 POINT BELT
Comments
Comments                               : PASSENGER RESTRAINT #2 INFORMATION -----
Vehicle Reference Number 4              : 1
Occupant Seat Position 4                : 3
Restraint Mount 4                      : DP
Restraint Type 4                       : ABG
Restraint Deployed 4                   : DP
Comments                               : PASSENGER AIR BAG

```