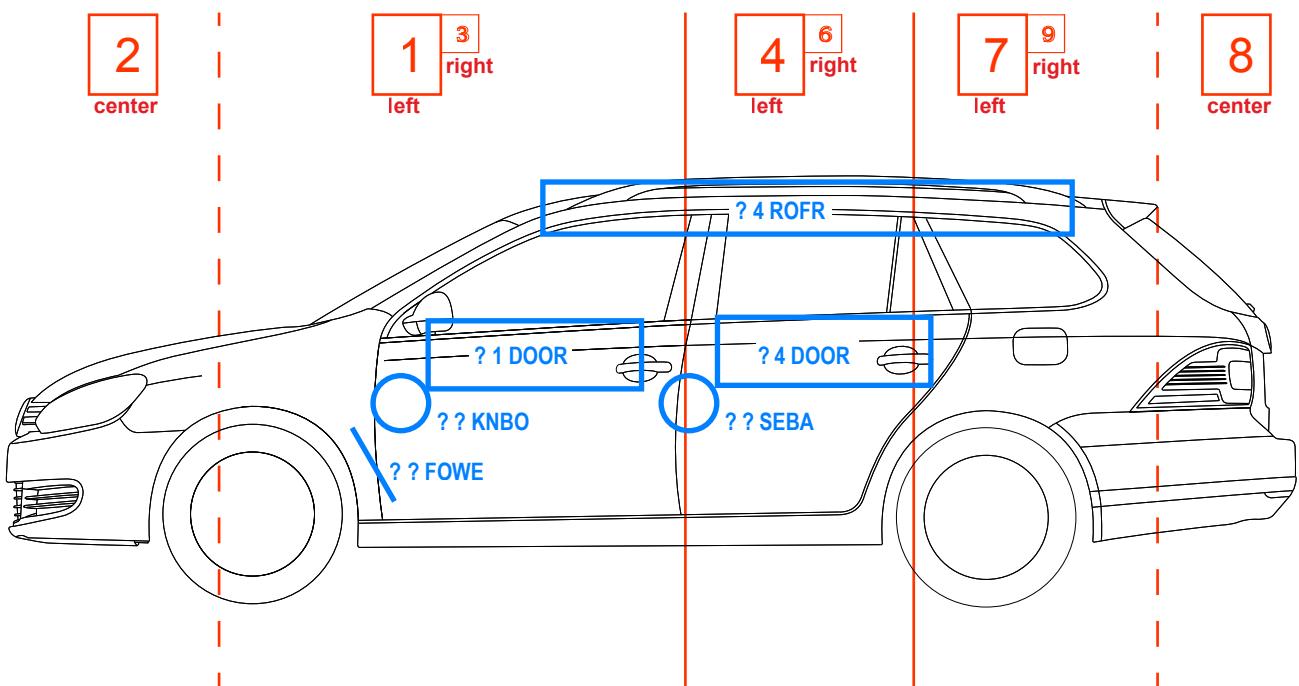




X ← Y ↓ Z



picture only from the left side of the vehicle

General Main Locations

? ? AIRB ???? ?? Airbag
? ? ABSE ???? ?? Airbag Sensor

Frontal Airbags

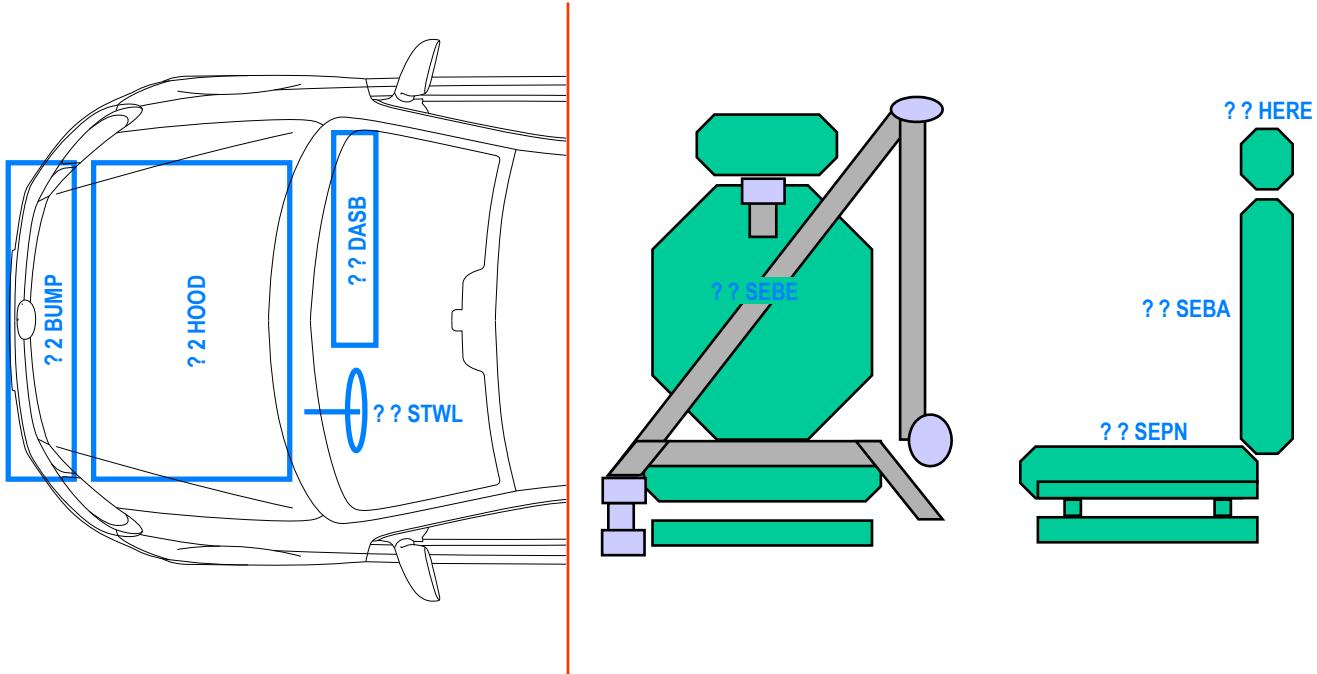
? ? KNBO ???? AF Knee Bolster Airbag
? ? KNBO ???? GF Knee Bolster Generator
? ? SEBA ???? AF Seat Back Knee Airbag
? ? SEBA ???? GF Seat Back Knee Generator
? ? FOWE ???? AF Footwell Airbag
? ? FOWE ???? GF Footwell Generator

Side Airbags

? ? DOOR ???? AS Door Side Airbag
? ? DOOR ???? GS Door Side Generator

Head Airbags

? ? DOOR ???? AH Door Head Airbag
? ? DOOR ???? GH Door Head Generator
? ? ROFR ???? AH Roof Frame Head Airbag
? ? ROFR ???? GH Roof Frame Head Generator



Frontal Airbags

- ? ? STWL ???? AF Steering Wheel Airbag
- ? ? STWL ???? GF Steering Wheel Gen.
- ? ? DASB ???? AF Dashboard Airbag
- ? ? DASB ???? GF Dashboard Generator

Pedestrian Airbags

- ? 2 BUMP ???? AP Bumper Airbag
- ? 2 BUMP ???? GP Bumper Generator
- ? 2 HOOD ???? AP Hood Airbag
- ? 2 HOOD ???? GP Hood Generator

Frontal Airbags

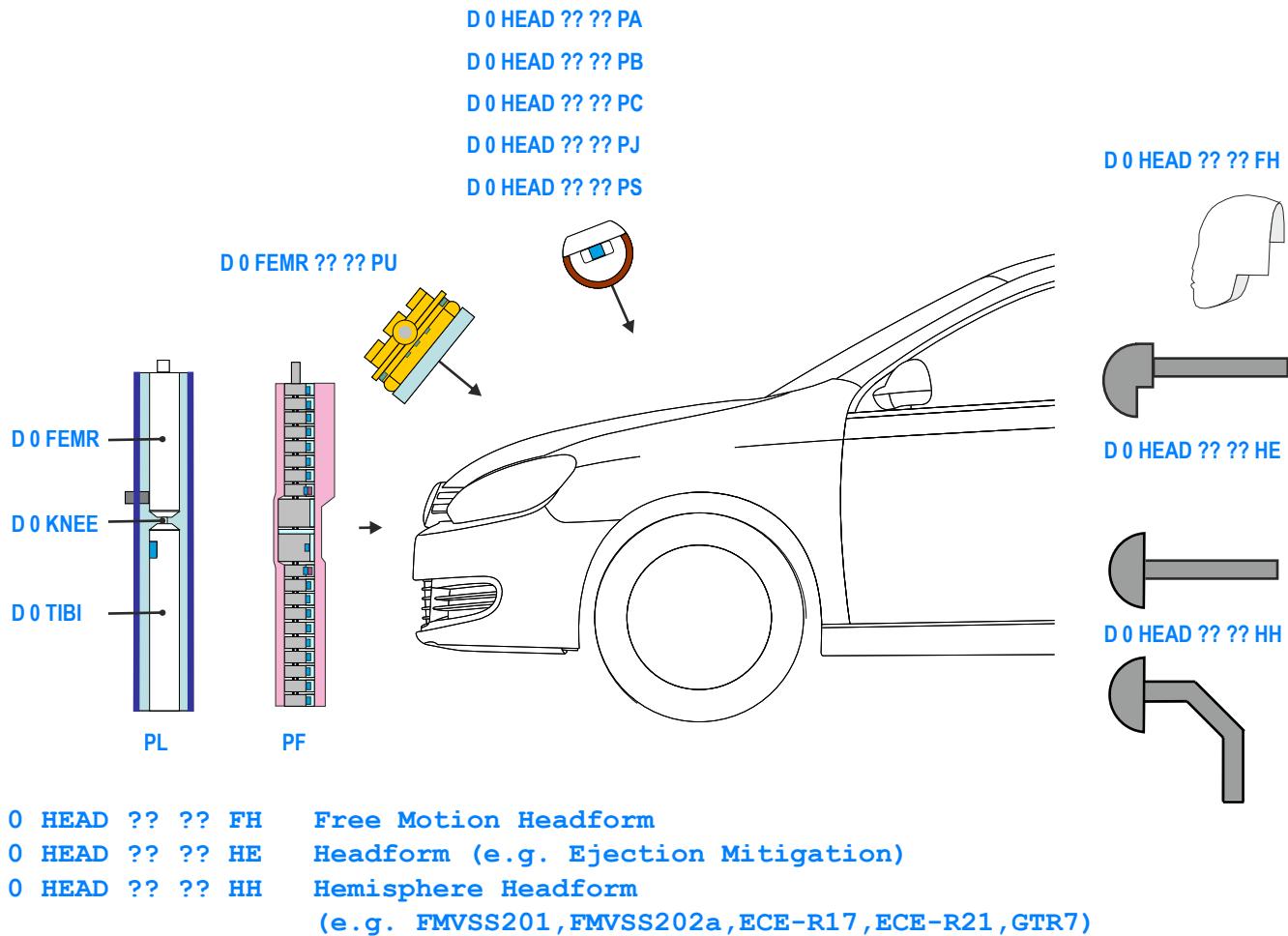
- ? ? SEBE ???? AF Seat Belt Airbag
- ? ? SEBE ???? GF Seat Belt Generator

Side Airbags

- ? ? SEPN ???? AS Seat Pan Airbag
- ? ? SEPN ???? GS Seat Pan Generator
- ? ? SEBA ???? AS Seat Back Airbag
- ? ? SEBA ???? GS Seat Back Generator

Rear Airbags

- ? ? HERE ???? AR Head Restraint Airbag
- ? ? HERE ???? GR Head Restraint Gen.



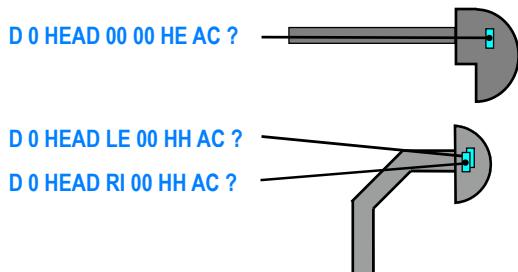
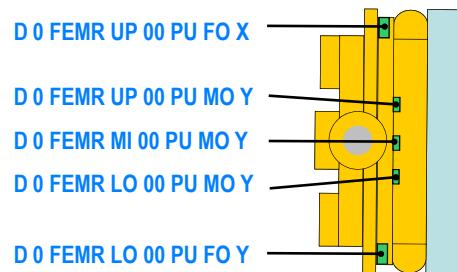
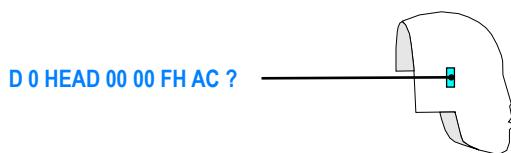
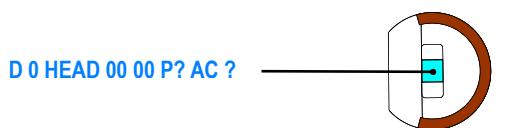
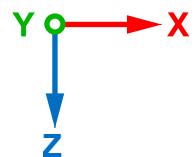
D 0 HEAD ?? ?? FH Free Motion Headform
D 0 HEAD ?? ?? HE Headform (e.g. Ejection Mitigation)
D 0 HEAD ?? ?? HH Hemisphere Headform
 (e.g. FMVSS201, FMVSS202a, ECE-R17, ECE-R21, GTR7)

D 0 HEAD ?? ?? PA Adult Headform
D 0 HEAD ?? ?? PB ACEA Headform
D 0 HEAD ?? ?? PC Child Headform
D 0 HEAD ?? ?? PJ JARI Headform
D 0 HEAD ?? ?? PS JARI Child Headform

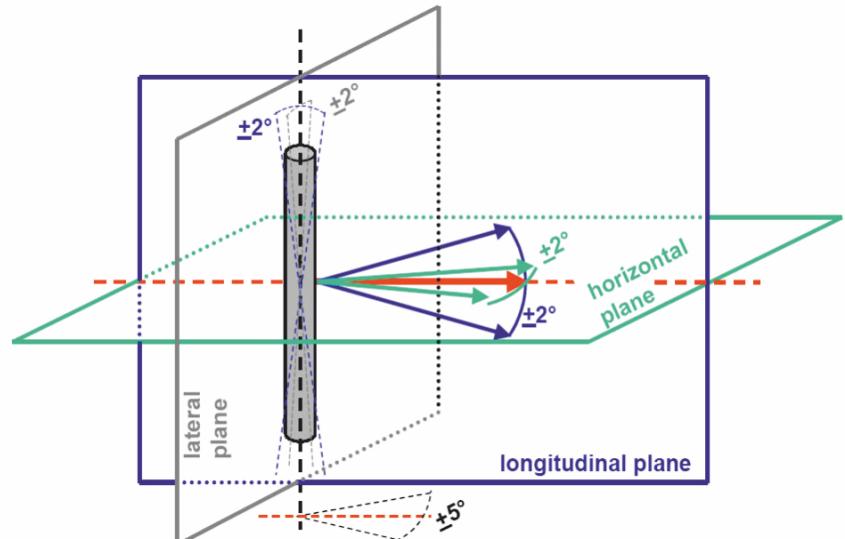
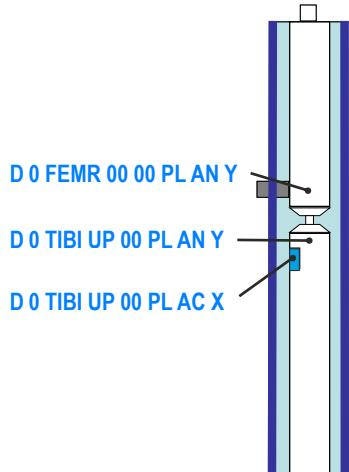
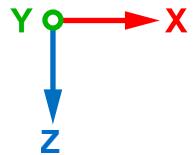
D 0 FEMR ?? ?? PU Upper Legform Pedestrian Impactor

D 0 FEMR ?? ?? PL Legform Pedestrian Impactor (upper leg)
D 0 KNEE ?? ?? PL Legform Pedestrian Impactor (knee region)
D 0 TIBI ?? ?? PL Legform Pedestrian Impactor (lower leg)

D 0 FEMR ?? ?? PF Flexible Legform Impactor (upper leg)
D 0 KNEE ?? ?? PF Flexible Legform Impactor (knee region)
D 0 TIBI ?? ?? PF Flexible Legform Impactor (lower leg)



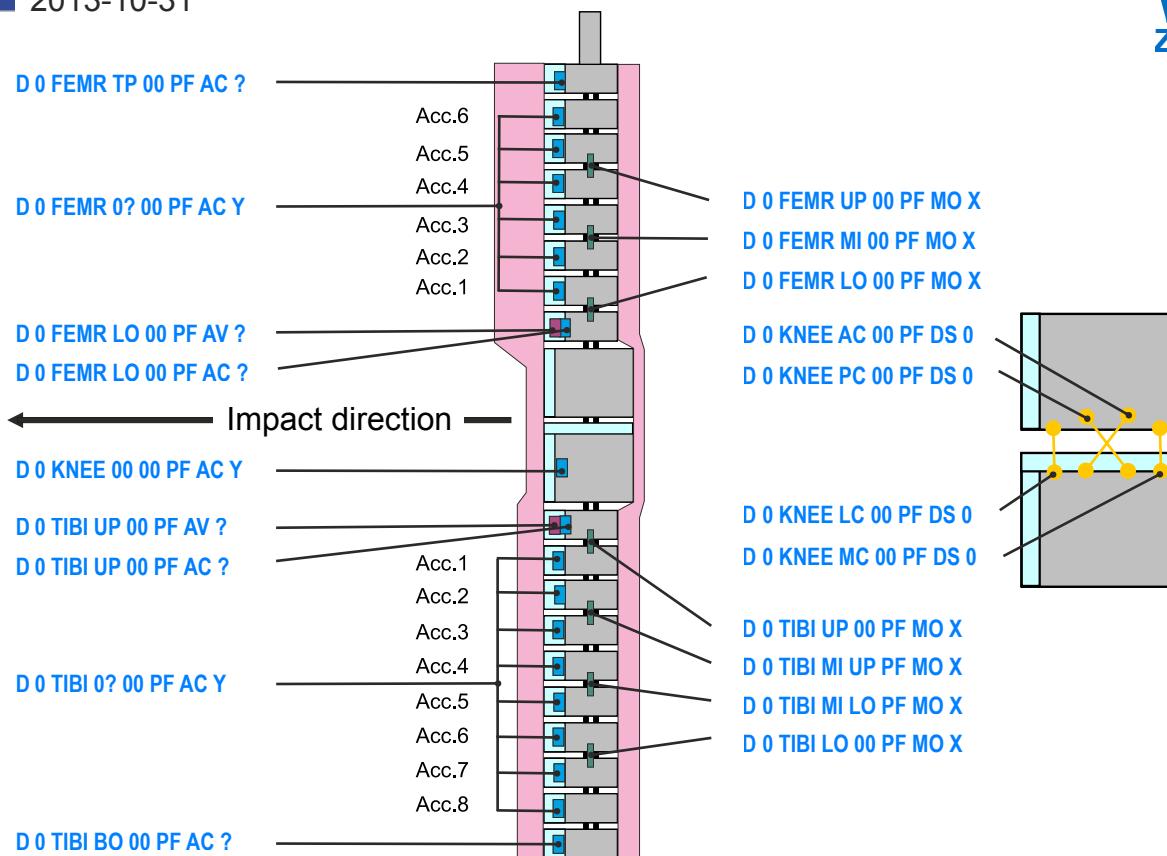
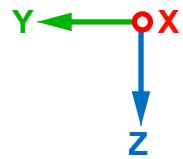
D 0 HEAD 00 00 FH AC X ?	Free Motion Headform Acceleration X	transducer
D 0 HEAD 00 00 FH AC Y ?	Free Motion Headform Acceleration Y	transducer
D 0 HEAD 00 00 FH AC Z ?	Free Motion Headform Acceleration Z	transducer
D 0 HEAD ?? 00 H? AC X ?	(Hemisphere) Headform Acceleration X	transducer
D 0 HEAD ?? 00 H? AC Y ?	(Hemisphere) Headform Acceleration Y	transducer
D 0 HEAD ?? 00 H? AC Z ?	(Hemisphere) Headform Acceleration Z	transducer
D 0 HEAD 00 00 P? AC X ?	Pedestrian Headform Acceleration X	transducer
D 0 HEAD 00 00 P? AC Y ?	Pedestrian Headform Acceleration Y	transducer
D 0 HEAD 00 00 P? AC Z ?	Pedestrian Headform Acceleration Z	transducer
D 0 HEAD 00 ?? ?? DS X V	Position X	filmanalysis
D 0 HEAD 00 ?? ?? DS Y V	Position Y	filmanalysis
D 0 HEAD 00 ?? ?? DS Z V	Position Z	filmanalysis
D 0 HEAD 00 ?? ?? AN X V	Rotation around X Axis	filmanalysis
D 0 HEAD 00 ?? ?? AN Y V	Rotation around Y Axis	filmanalysis
D 0 HEAD 00 ?? ?? AN Z V	Rotation around Z Axis	filmanalysis
D 0 FEMR UP 00 PU FO X ?	Upper Shear Force X	transducer
D 0 FEMR LO 00 PU FO X ?	Lower Shear Force X	transducer
D 0 FEMR UP 00 PU MO Y ?	Upper Bending Moment Y	transducer
D 0 FEMR MI 00 PU MO Y ?	Middle Bending Moment Y	transducer
D 0 FEMR LO 00 PU MO Y ?	Lower Bending Moment Y	transducer



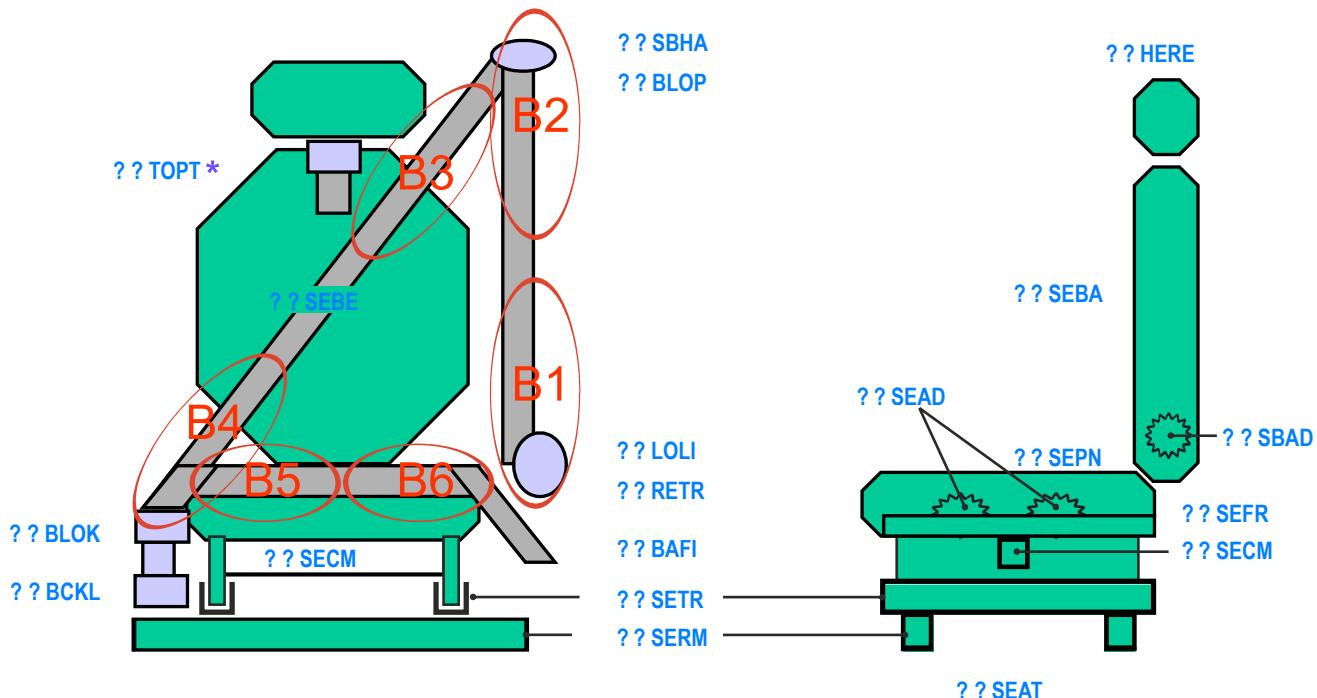
Impact direction →

D 0 TIBI UP 00 PL AC X ?	Tibia Acceleration X	transducer
D 0 TIBI UP 00 PL AN Y ?	Bending Angle Tibia Y	transducer
D 0 FEMR 00 00 PL AN Y ?	Bending Angle Femur Y	transducer
D 0 KNEE 00 00 PL AN Y ?	Bending Angle effective Y	calculation
D 0 KNEE 00 00 PL DS X ?	Shear Displacement X	calculation
negative shear displacement values if tibia is retained against femur		
D 0 FEMR 00 OR PL DS X V	Position X	filmanalysis
D 0 FEMR 00 OR PL DS Y V	Position Y	filmanalysis
D 0 FEMR 00 OR PL DS Z V	Position Z	filmanalysis
D 0 FEMR 00 OR PL AN X V	Orientation in lateral Plane YZ	filmanalysis
D 0 FEMR 00 OR PL AN Y V	Orientation in longitudinal Plane XZ	filmanalysis
D 0 FEMR 00 OR PL AN Z V	Orientation in horizontal Plane XY	filmanalysis
D 0 TIBI UP 00 PL DS X ?	Indentation at Hit Point X	calculation

For compatibility to existing data the impact direction for this impactor defines the X coordinate of the local system.



D0FEMRUP00PFMOX	Femur Up Moment X	D0FEMRLO000PFACX	Femur Lo Acc X
D0FEMRMI00PFMOX	Femur Mi Moment X	D0FEMRLO000PFACY	Femur Lo Acc Y
D0FEMRLO00PFMOX	Femur Lo Moment X	D0FEMRLO000PFACZ	Femur Lo Acc Z
D0KNEELC00PFDS0	Knee LCL Elongation	D0FEMRLO000PFAVX	Femur Lo Ang Vel X
D0KNEEAC00PFDS0	Knee ACL Elongation	D0FEMRLO000PFAVY	Femur Lo Ang Vel Y
D0KNEEPC00PFDS0	Knee PCL Elongation	D0FEMRLO000PFAVZ	Femur Lo Ang Vel Z
D0KNEEMC00PFDS0	Knee MCL Elongation	DOTIBIUP000PFACX	Tibia Up Acc X
DOTIBIUP00PFMOX	Tibia Up Moment X	DOTIBIUP000PFACY	Tibia Up Acc Y
DOTIBIMIUPPFMOX	Tibia Mi Up Mom X	DOTIBIUP000PFACZ	Tibia Up Acc Z
DOTIBIMIOPFMOX	Tibia Mi Lo Mom X	DOTIBIUP000PFAVX	Tibia Up Ang Vel X
DOTIBILO000PFMOX	Tibia Lo Moment X	DOTIBIUP000PFAVY	Tibia Up Ang Vel Y
DOTIBILO000PFMOX	Tibia Lo Moment X	DOTIBIUP000PFAVZ	Tibia Up Ang Vel Z
D0FEMRTP00PFACX	Femur Top Acc X	DOTIBI0100PFACY	Tibia Seg 1 Acc Y
D0FEMRTP00PFACY	Femur Top Acc Y	DOTIBI0200PFACY	Tibia Seg 2 Acc Y
D0FEMRTP00PFACZ	Femur Top Acc Z	DOTIBI0300PFACY	Tibia Seg 3 Acc Y
D0FEMR0600PFACY	Femur Seg 6 Acc Y	DOTIBI0400PFACY	Tibia Seg 4 Acc Y
D0FEMR0500PFACY	Femur Seg 5 Acc Y	DOTIBI0500PFACY	Tibia Seg 5 Acc Y
D0FEMR0400PFACY	Femur Seg 4 Acc Y	DOTIBI0600PFACY	Tibia Seg 6 Acc Y
D0FEMR0300PFACY	Femur Seg 3 Acc Y	DOTIBI0700PFACY	Tibia Seg 7 Acc Y
D0FEMR0200PFACY	Femur Seg 2 Acc Y	DOTIBI0800PFACY	Tibia Seg 8 Acc Y
D0FEMR0100PFACY	Femur Seg 1 Acc Y	DOTIBIBO000PFACX	Tibia Bo Acc X
		DOTIBIBO000PFACY	Tibia Bo Acc Y
		DOTIBIBO000PFACZ	Tibia Bo Acc Z



? ? SEBE ???? B1 Seat Belt at Retractor
 ? ? SEBE ???? B2 Seat Belt below Belt Loop
 ? ? SEBE ???? B3 Seat Belt at upper Diag. Belt
 ? ? SEBE ???? B4 Seat Belt at lower Diag. Belt
 ? ? SEBE ???? B5 Seat Belt at Lap Belt inside
 ? ? SEBE ???? B6 Seat Belt at Lap Belt outside

 ? ? PRET ???? B1 Pretensioner at Retractor
 ? ? PRET ???? B2 Pretensioner below Belt Loop
 ? ? PRET ???? B4 Pretensioner at lower Diag. Belt
 ? ? PRET ???? B6 Pretensioner at Lap Belt outside

? ? LOLI Load Limiter
 ? ? RETR Retractor

? ? SBHA Seat Belt Height Adjuster
 ? ? BLOP Belt Loop

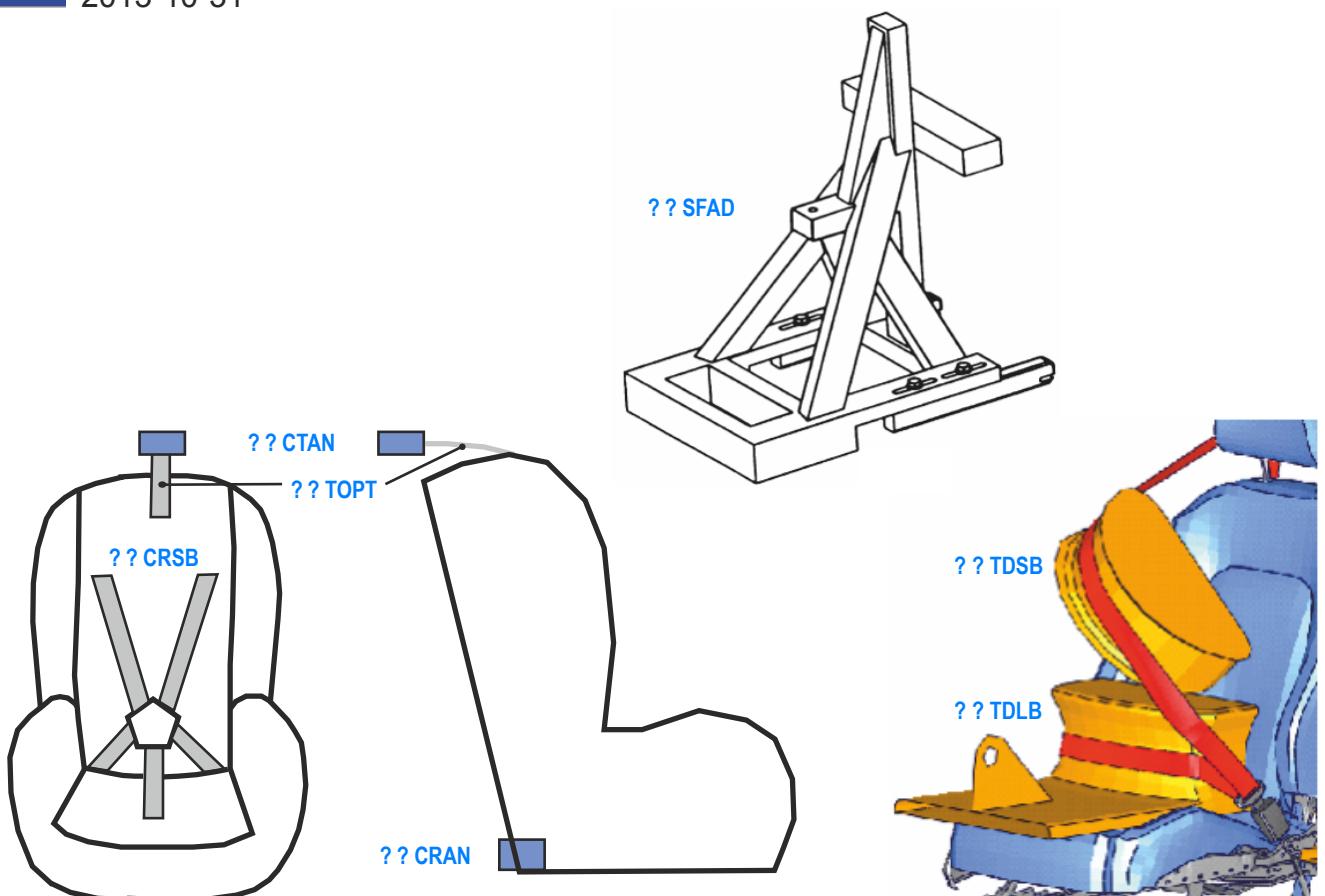
? ? BLOK Belt Lock
 ? ? BCKL Buckle

? ? BAFI Belt Anchor Fitting

* Only at the rear seats

? ? TOPT Top Tether

? ? SEAT Seat
 ? ? SEBA Seat Back
 ? ? SBAD Seat Back Adjuster
 ? ? SEFR Seat Frame
 ? ? SETR Seat Track
 ? ? SEAD Seat Adjuster
 ? ? SEPN Seat Pan
 ? ? HERE Head Restraint
 ? ? SECM Seat Cross Member
 ? ? SERM Seat Rail Mount



? ? TDSB Traction Device Shoulder Belt

? ? TDLB Traction Device Lap Belt

? ? CTAN Child Tether Anchorage

? ? CRAN Child Restraint Anchorage

? ? CRSB Child Restraint Seat Belt

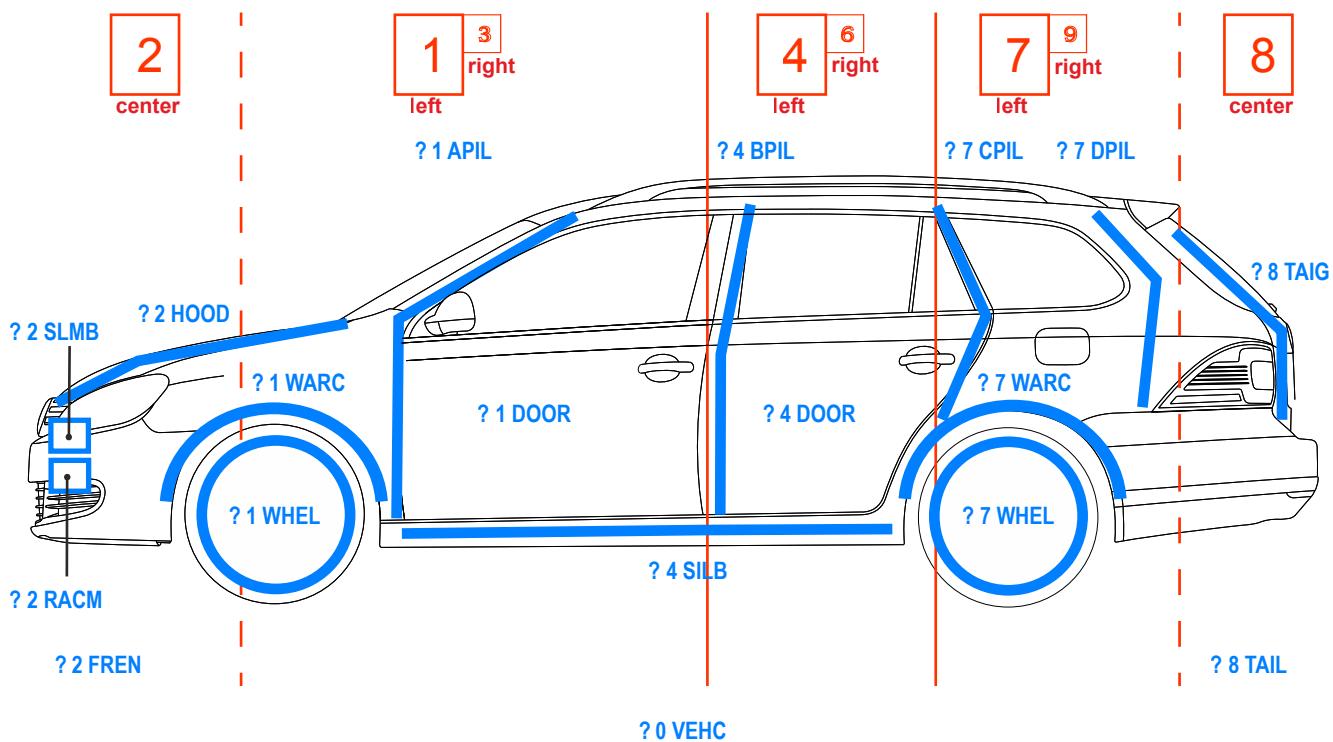
? ? TOPT Top Tether

? ? TOPT Top Tether



2013-10-31

X ← X Y
↓ Z



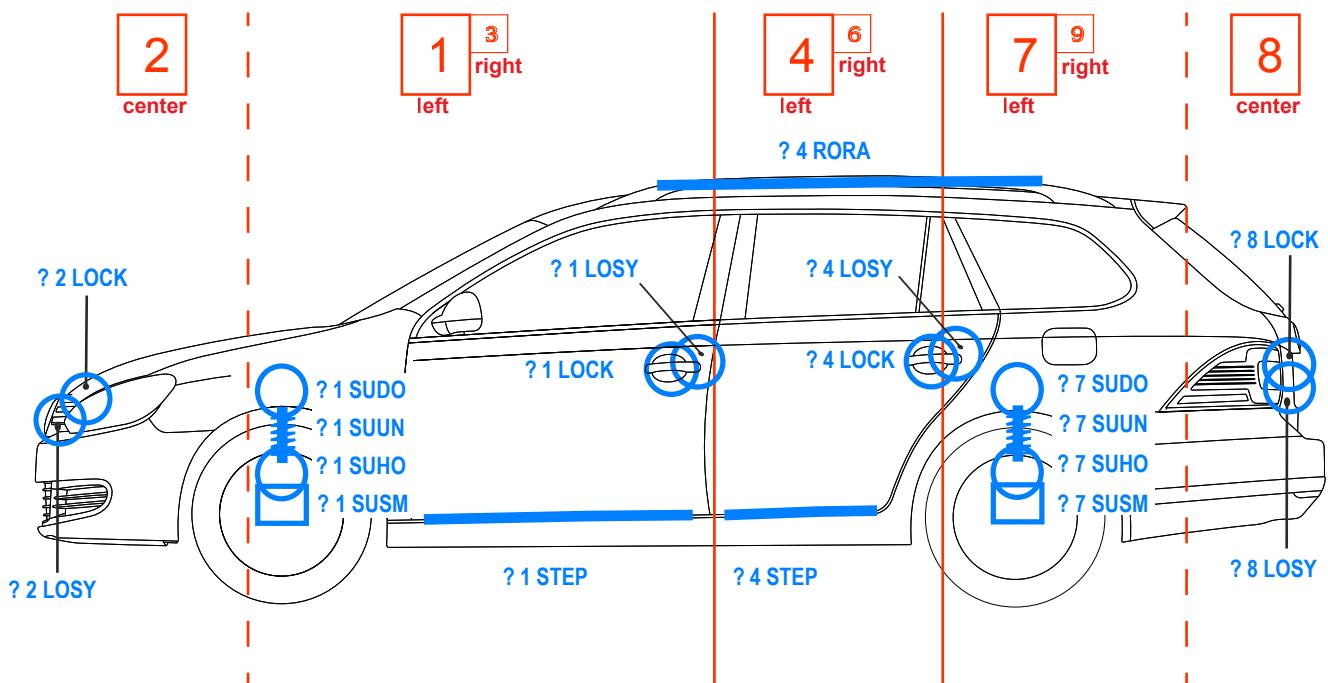
picture only from the left side of the vehicle

? 1 APIL	A-Pillar left	? 1 DOOR	Door front left
? 3 APIL	A-Pillar right	? 3 DOOR	Door front right
? 4 BPIL	B-Pillar left	? 4 DOOR	Door rear left
? 6 BPIL	B-Pillar right	? 6 DOOR	Door rear right
? 7 CPIL	C-Pillar left	? 2 HOOD	Hood
? 9 CPIL	C-Pillar right	? 8 TAIG	Tailgate
? 7 DPIL	D-Pillar left	? 0 VEH	Vehicle
? 9 DPIL	D-Pillar right	? 2 FREN	Frontend
? 4 SILB	Sill Beam left	? 8 TAIL	Tail
? 6 SILB	Sill Beam right		
? 1 WHEEL	Wheel front left	? 2 SLMB	Slam Beam
? 3 WHEEL	Wheel front right	? 2 RACM	Radiator Cross Member
? 7 WHEEL	Wheel rear left		
? 9 WHEEL	Wheel rear right		
? 1 WARC	Wheel Arch front left		
? 3 WARC	Wheel Arch front right		
? 7 WARC	Wheel Arch rear left		
? 9 WARC	Wheel Arch rear right		



2013-10-31

X ← Y ↓ Z



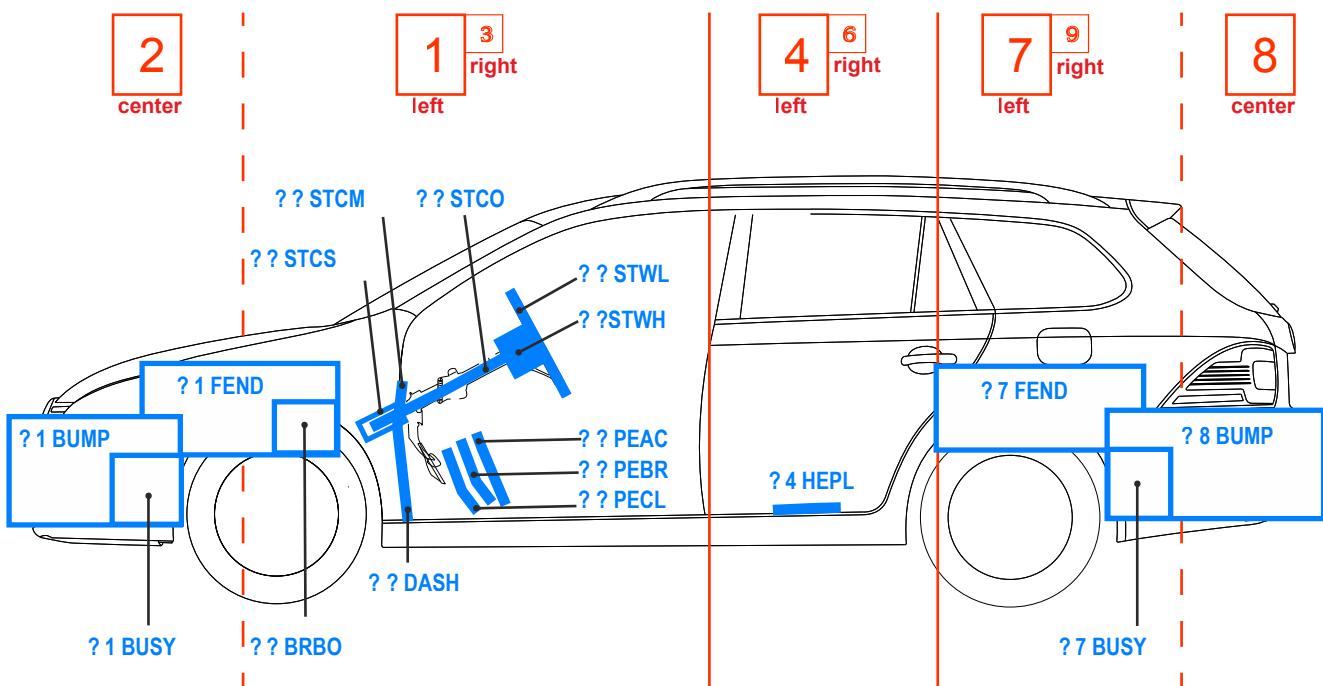
picture only from the left side of the vehicle

? 1 LOSY	Locking System front left	? 1 SUDO	Suspension Dome front left
? 3 LOSY	Locking System front right	? 3 SUDO	Suspension Dome front right
? 4 LOSY	Locking System rear left	? 7 SUDO	Suspension Dome rear left
? 6 LOSY	Locking System rear right	? 9 SUDO	Suspension Dome rear right
? 2 LOSY	Locking System front	? 1 SUUN	Suspension Unit front left
? 8 LOSY	Locking System rear	? 3 SUUN	Suspension Unit front right
? 1 LOCK	Lock front left	? 7 SUUN	Suspension Unit rear left
? 3 LOCK	Lock front right	? 9 SUUN	Suspension Unit rear right
? 4 LOCK	Lock rear left	? 1 SUHO	Suspen. Housing front left
? 6 LOCK	Lock rear right	? 3 SUHO	Suspen. Housing front right
? 2 LOCK	Lock front	? 7 SUHO	Suspen. Housing rear left
? 8 LOCK	Lock rear	? 9 SUHO	Suspen. Housing rear right
? 4 RORA	Roof Rack left	? 1 SUSM	Suspension Mount front left
? 6 RORA	Roof Rack right	? 3 SUSM	Suspension Mount front right
? 1 STEP	Step front left	? 7 SUSM	Suspension Mount rear left
? 3 STEP	Step front right	? 9 SUSM	Suspension Mount rear right
? 4 STEP	Step rear left		
? 7 STEP	Step rear right		



2013-10-31

X ← Y ↓ Z



picture only from the left side of the vehicle

? ? STWL Steering Wheel
? ? STWH Steering Wheel Hub
? ? STCO Steering Column
? ? STCM Steering Column Mount
? ? STCS Steering Column Suspension

? ? DASH Dash Panel

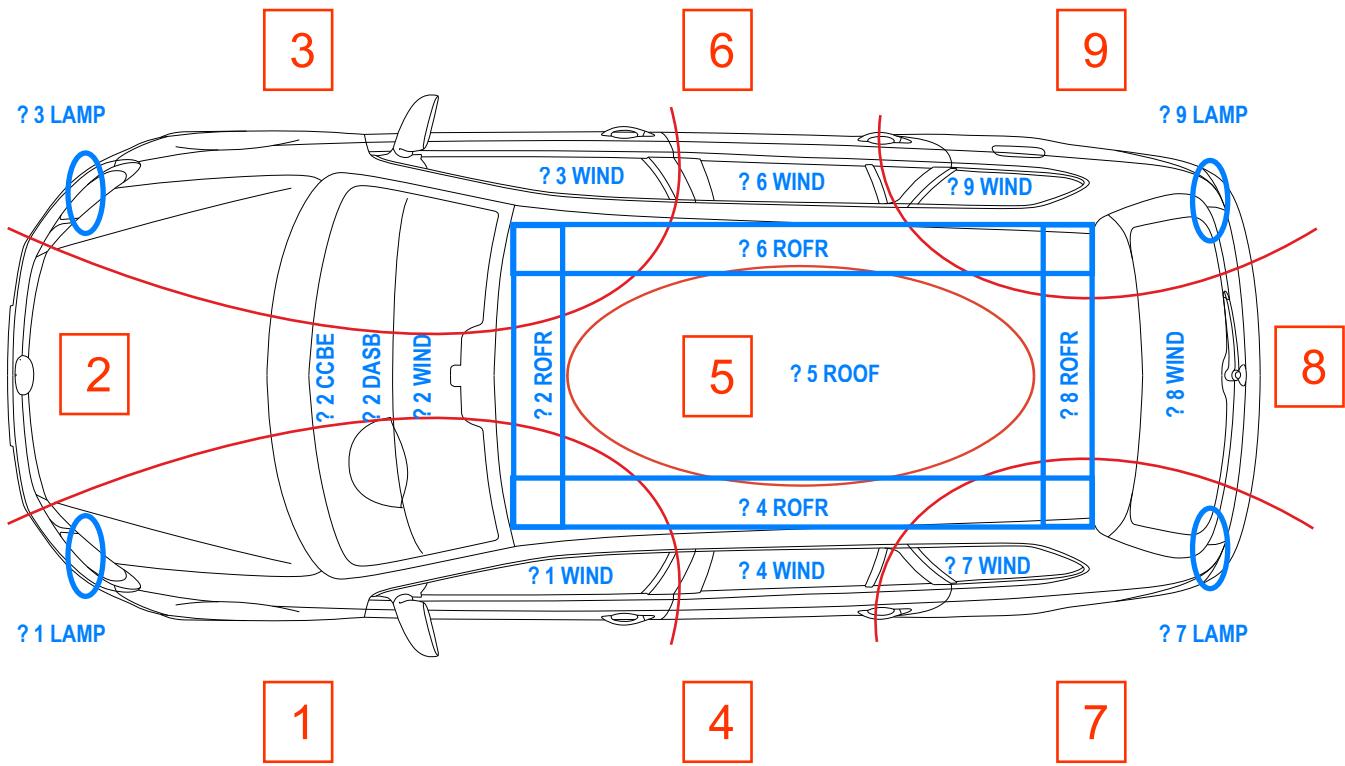
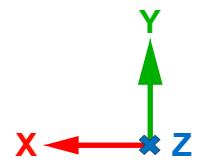
? ? PEAC Pedal Accelerator
? ? PEBR Pedal Brake
? ? PECL Pedal Clutch
? ? BRBO Brake Booster

? 1 FEND Fender front left
? 3 FEND Fender front right
? 7 FEND Fender rear left
? 9 FEND Fender rear right

? 2 BUMP Bumper front
? 8 BUMP Bumper rear

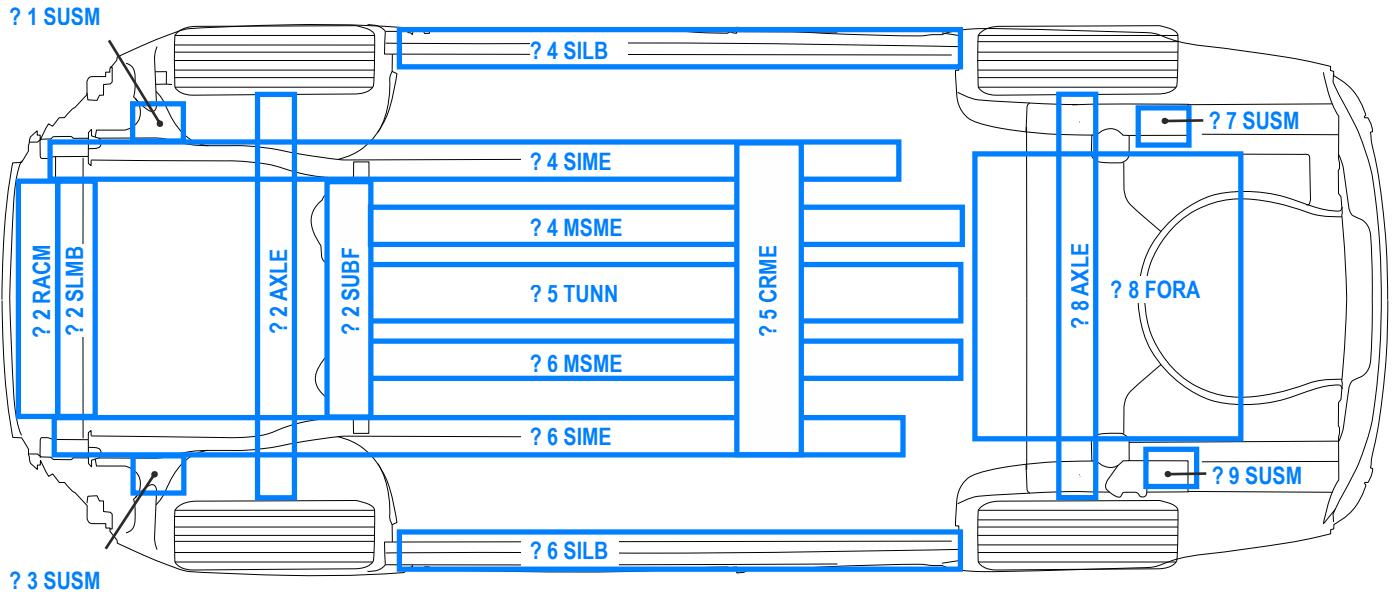
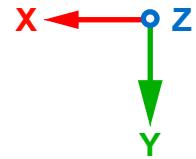
? 1 BUSY Bumper System front left
? 3 BUSY Bumper System front right
? 7 BUSY Bumper System rear left
? 9 BUSY Bumper System rear right

? 4 HEPL Heel Plate left
? 6 HEPL Heel Plate right



? 1 WIND	Window front left
? 2 WIND	Window front
? 3 WIND	Window front right
? 4 WIND	Window middle left
? 6 WIND	Window middle right
? 7 WIND	Window rear left
? 8 WIND	Window rear
? 9 WIND	Window rear right
? 1 LAMP	Headlamp left
? 3 LAMP	Headlamp right
? 7 LAMP	Taillight left
? 9 LAMP	Taillight right

? 5 ROOF	Roof
? 2 ROFR	Roof Frame front
? 4 ROFR	Roof Frame left
? 6 ROFR	Roof Frame right
? 8 ROFR	Roof Frame rear
Below the windscreen	
? 2 DASB	Dash Board
? 2 CCBE	Cross Car Beam

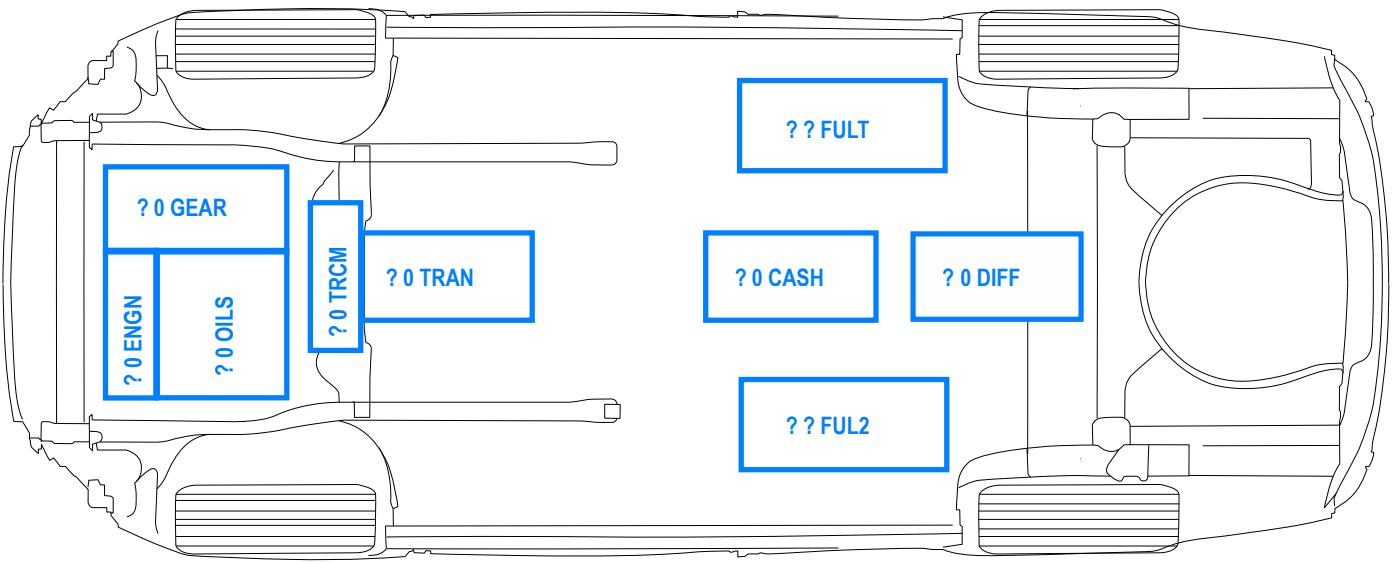


? 2 AXLE	Axle front
? 8 AXLE	Axle rear
? 8 FORA	Floor over Rear Axle
? 2 RACM	Radiator Cross Member
? 2 SLMB	Slam Beam
? 2 SUBF	Subframe
? 1 SUSM	Suspension Mount front left
? 3 SUSM	Suspension Mount front right
? 7 SUSM	Suspension Mount rear left
? 9 SUSM	Suspension Mount rear right
? 5 CRME	Cross Member
? 4 SILB	Sill Beam left
? 6 SILB	Sill Beam right
? 4 SIME	Side Member left
? 6 SIME	Side Member right
? 4 MSME	Main Side Member left
? 6 MSME	Main Side Member right
? 5 TUNN	Tunnel

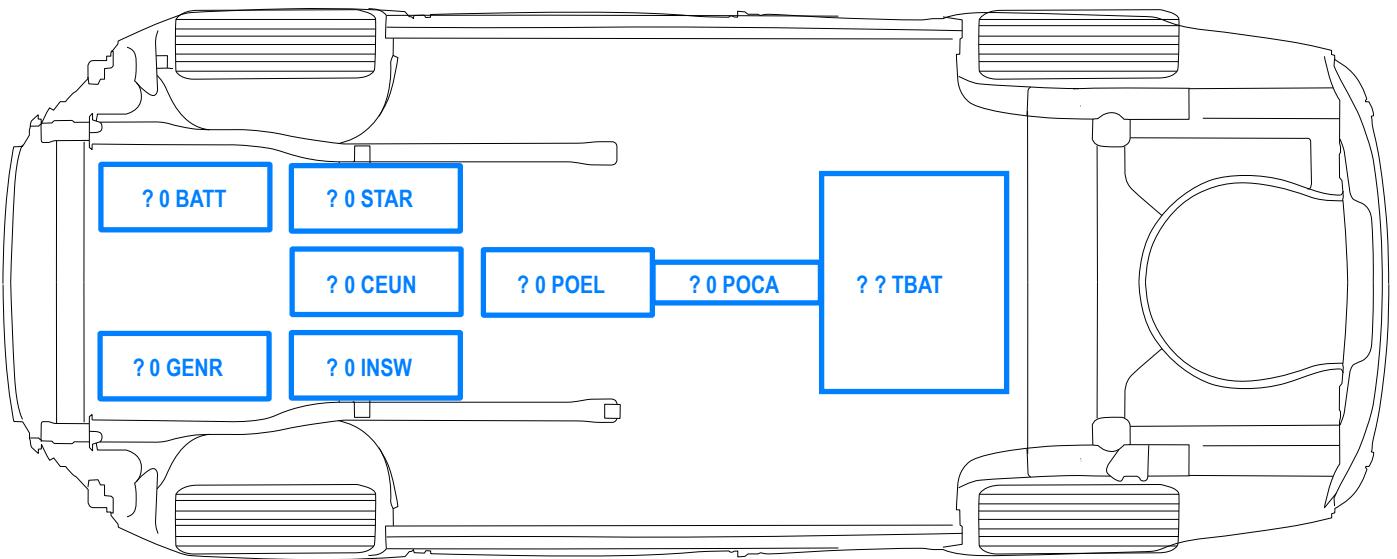
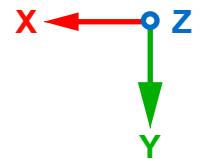
General Main Location
? ? FRAM Frame



X ← O Z
Y ↓

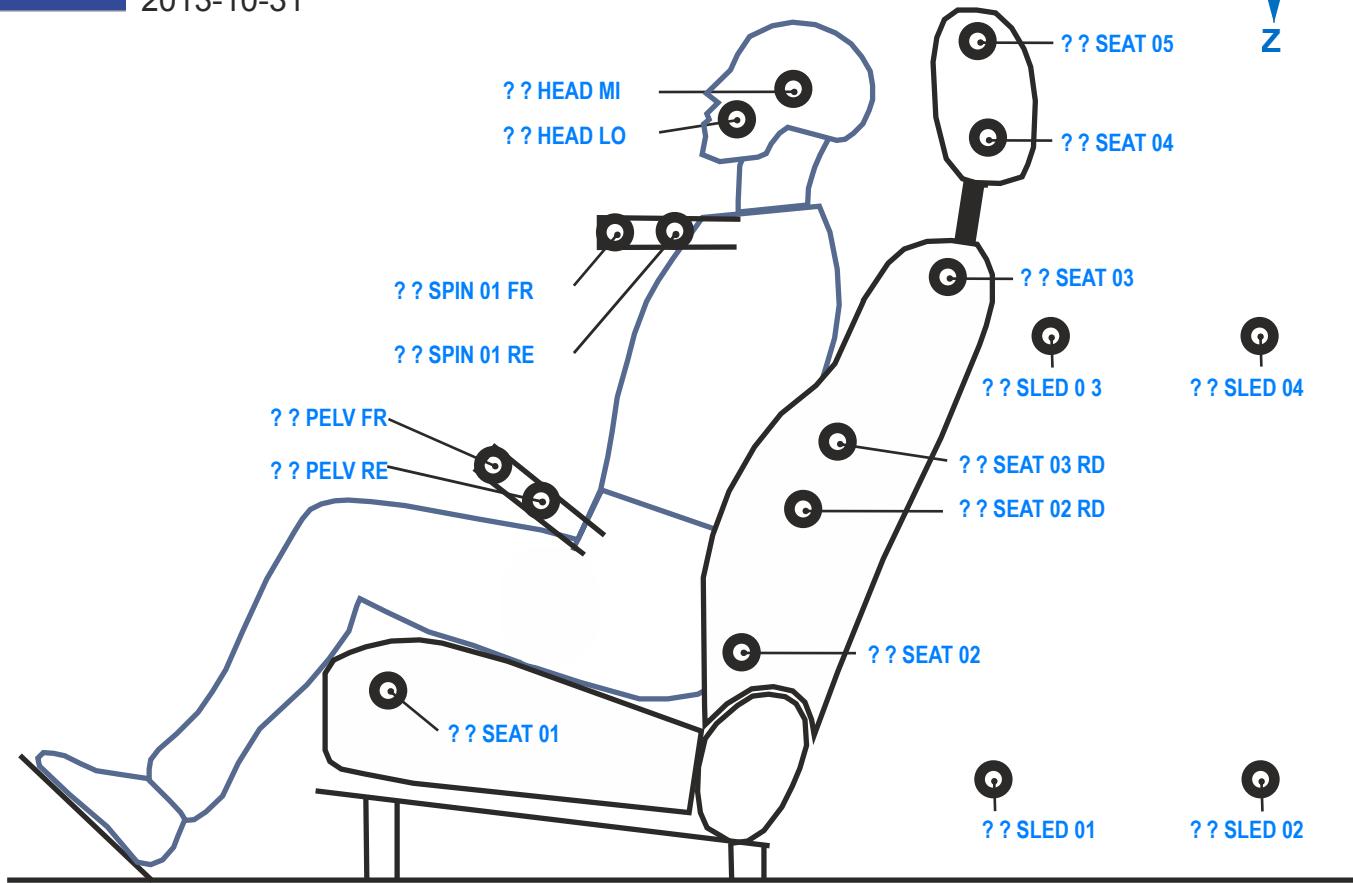


? 0 ENGN	Engine
? 0 GEAR	Gearbox
? 0 OILS	Oil Sump
? 0 TRCM	Transmission Cross Member
? 0 TRAN	Transmission
? 0 DIFF	Differential
? 0 CASH	Cardan Shaft
? ? FULT	Fuel Tank
? ? FUL2	2. Fuel Tank



? 0 BATT Battery
? 0 GENR Generator
? 0 STAR Starter
? 0 INSW Inertia Switch
? 0 CEUN Central Unit

? 0 POEL Power Electronics
? 0 POCA Power Cable
? ? TBAT Traction Battery

X ← Y
 ↓ Z


S ? SEAT 01 00 00 DS ? V	ST1	Seat Base forward
S ? SEAT 02 00 00 DS ? V	ST2	Seat Back lower
S ? SEAT 02 RD 00 DS ? V	ST2'	Seat Back mid #1
S ? SEAT 03 00 00 DS ? V	ST3	Seat Back upper
S ? SEAT 03 RD 00 DS ? V	ST3'	Seat Back mid #2
S ? SEAT 04 00 00 DS ? V	ST4	Lower Head Restraint
S ? SEAT 05 00 00 DS ? V	ST5	Upper Head Restraint

S ? HEAD MI 00 BR DS ? V	DT6	Head CoG
S ? HEAD LO 00 BR DS ? V	DT7	Cheek
S ? SPIN 01 RE BR DS ? V	DT8	T1 Bracket proximal
S ? SPIN 01 FR BR DS ? V	DT9	T1 Bracket distal
S ? PELV RE 00 BR DS ? V	DT10	Pelvis Bracket proximal
S ? PELV FR 00 BR DS ? V	DT11	Pelvis Bracket distal

S 0 SLED 01 00 00 DS ? V	Ref1	Reference Point #1
S 0 SLED 02 00 00 DS ? V	Ref2	Reference Point #2
S 0 SLED 03 00 00 DS ? V	Ref3	Reference Point #3
S 0 SLED 04 00 00 DS ? V	Ref4	Reference Point #4

Possible values for the direction are X, Y, Z and R

S 0 HEAD 00 DI BR VE X V Rebound velocity of head relative to sled