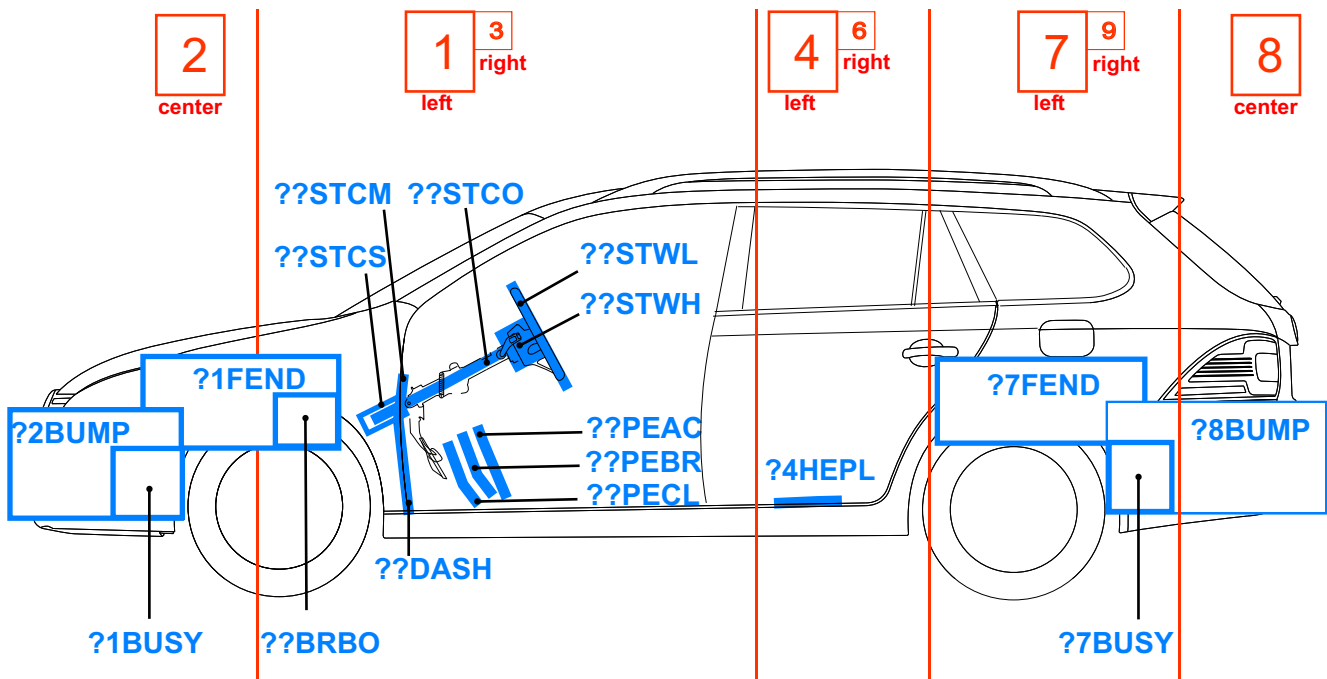


picture only for the left side of the vehicle

? 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		
? 9 CPIL	C-Pillar right	? 2 HOOD	Hood
? 7 DPIL	D-Pillar left	? 8 TAIG	Tailgate
? 9 DPIL	D-Pillar right		
		? 0 VEHC	Vehicle
? 4 SILB	Sill Beam left	? 2 FREN	Frontend
? 6 SILB	Sill Beam right	? 8 TAIL	Tail
? 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		



ISO TC22 / SC12 / WG3 / ISO-MME Task Force
Maintained by Peter Derpmann-Hagenström, Volkswagen AG

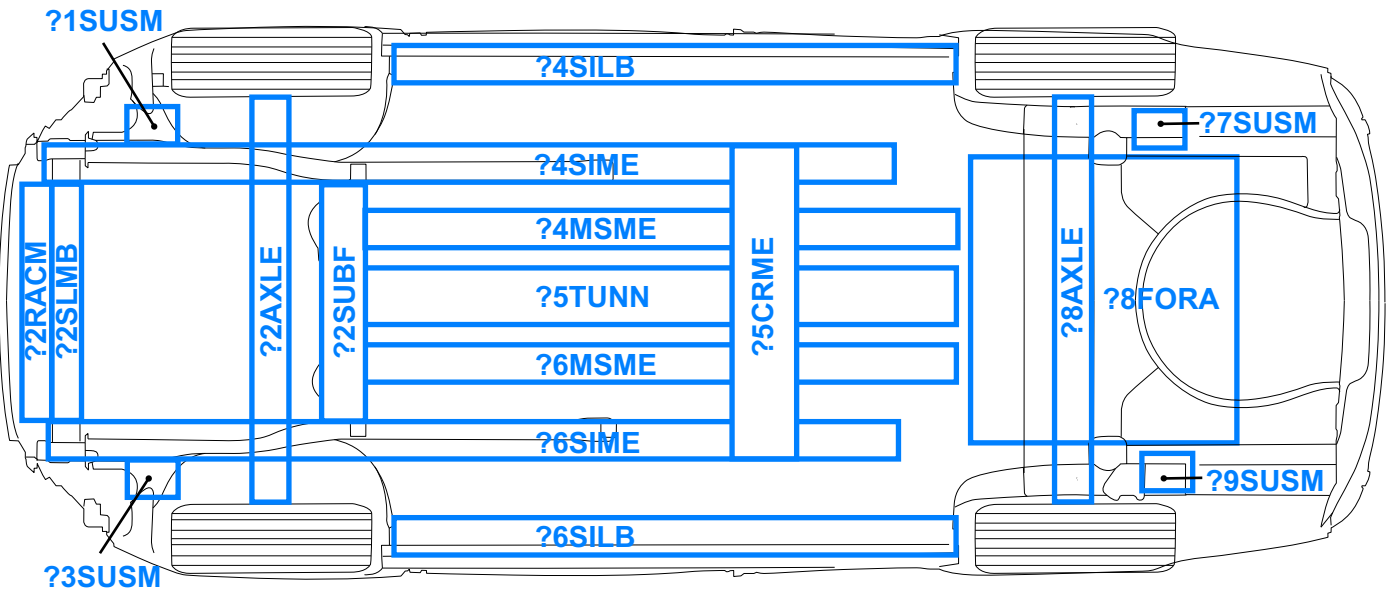


picture only for the left side of the vehicle

? ? 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

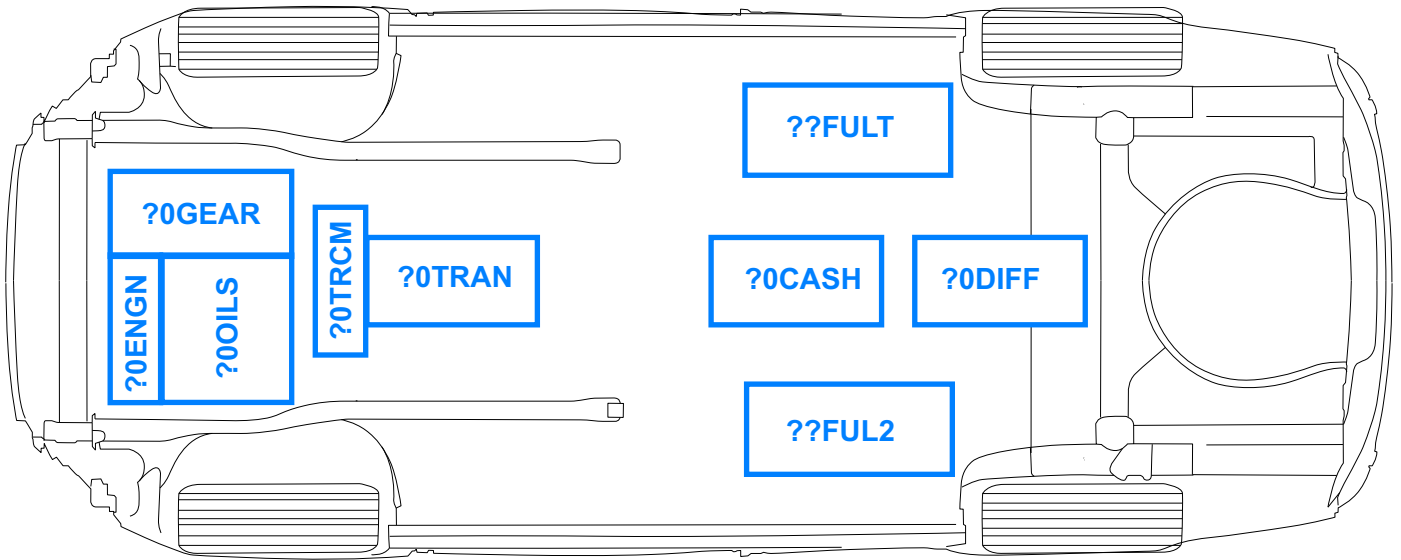




? 2 AXLE	Axle front
? 8 AXLE	Axle rear
? 8 FORA	Floor over Rear Axle
? 2 RACM	Radiator Cross Member
? 2 SLMB	Slam Beam
? 2 SUBF	Subframe
? 1 SUSM	Suspension Mount front left
? 3 SUSM	Suspension Mount front right
? 7 SUSM	Suspension Mount rear left
? 9 SUSM	Suspension Mount rear right
? 5 CRME	Cross Member
? 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

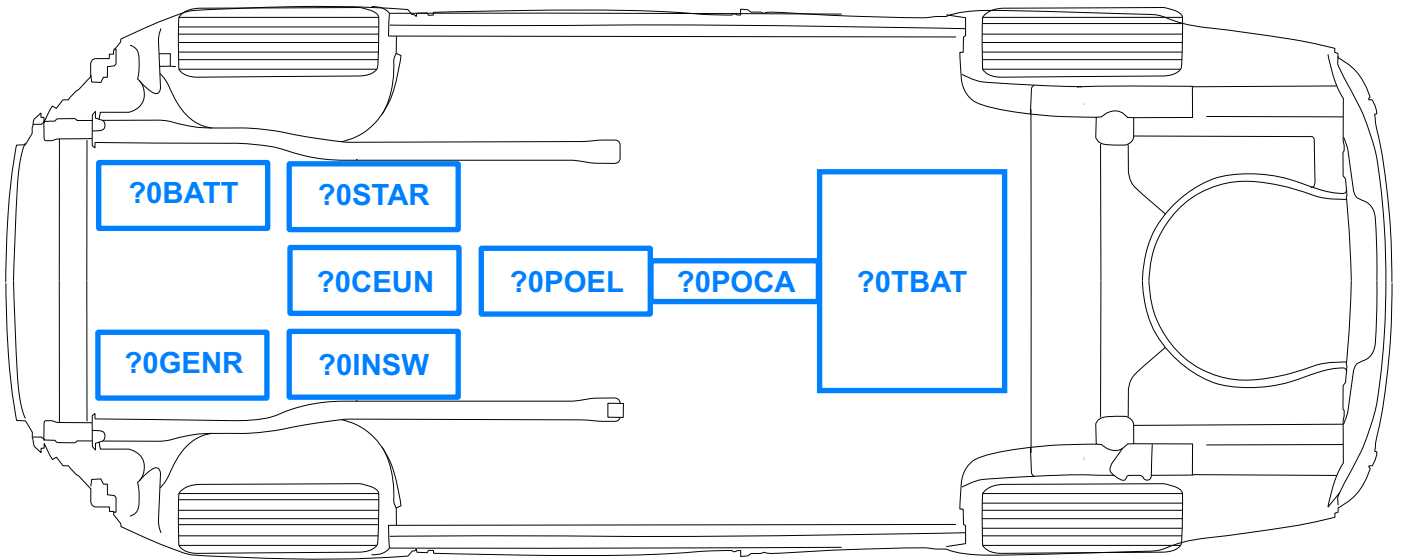
General Mainlocation

? ? FRAM	Frame
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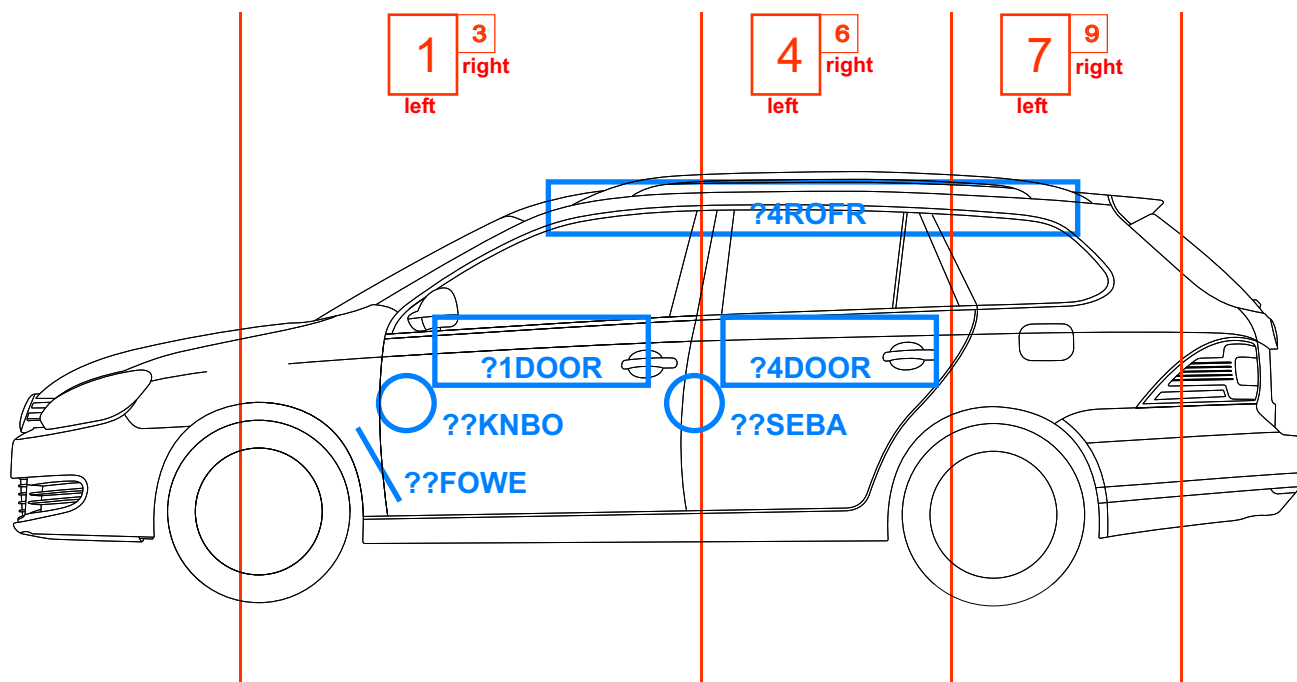


? 0 ENGN Engine
? 0 GEAR Gearbox
? 0 OILS Oil Sump
? 0 TRCM Transmission Cross Member
? 0 TRAN Transmission
? 0 DIFF Differential
? 0 CASH Cardan Shaft

? ? 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
- ? 0 TBAT Traction Battery



picture only for the left side of the vehicle

General Mainlocations

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

Frontal Airbags

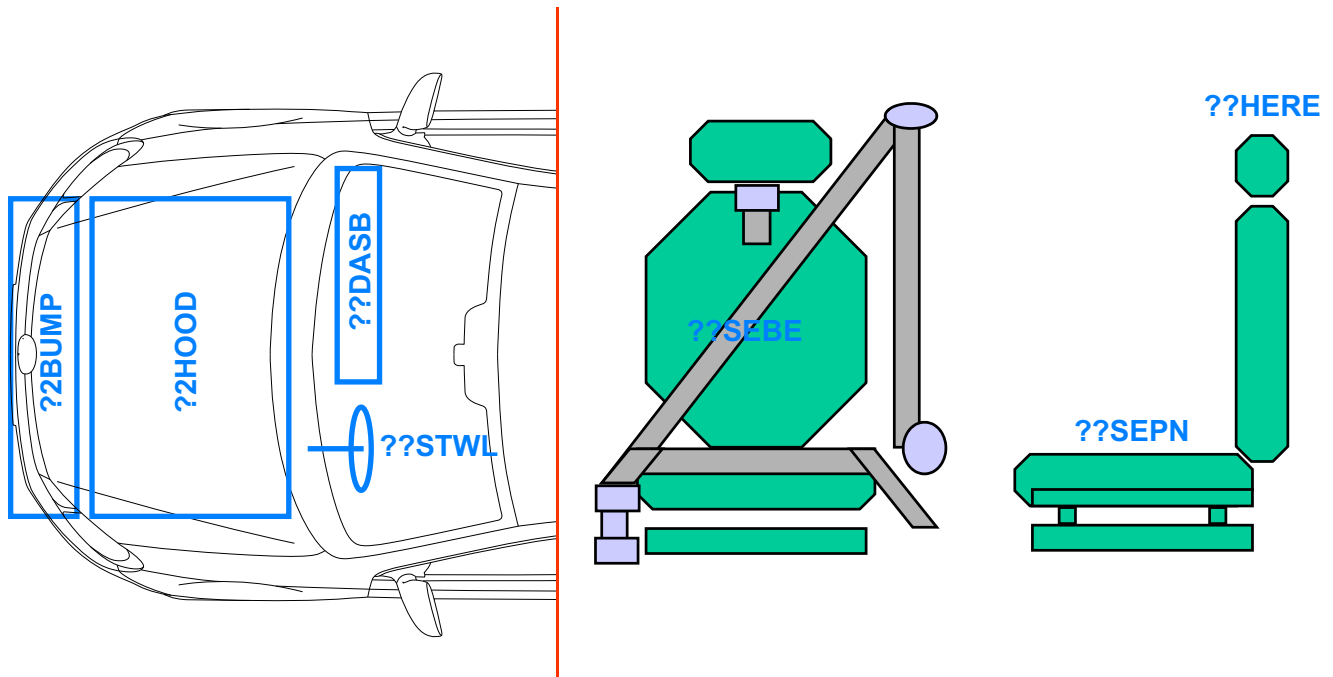
? ? KNBO	???? AF	Knee Bolster Airbag
? ? KNBO	???? GF	Knee Bolster Generator
? ? SEBA	???? AF	Seat Back Knee Airbag
? ? SEBA	???? GF	Seat Back Knee Generator
? ? FOWE	???? AF	Footwell Airbag
? ? FOWE	???? GF	Footwell Generator

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

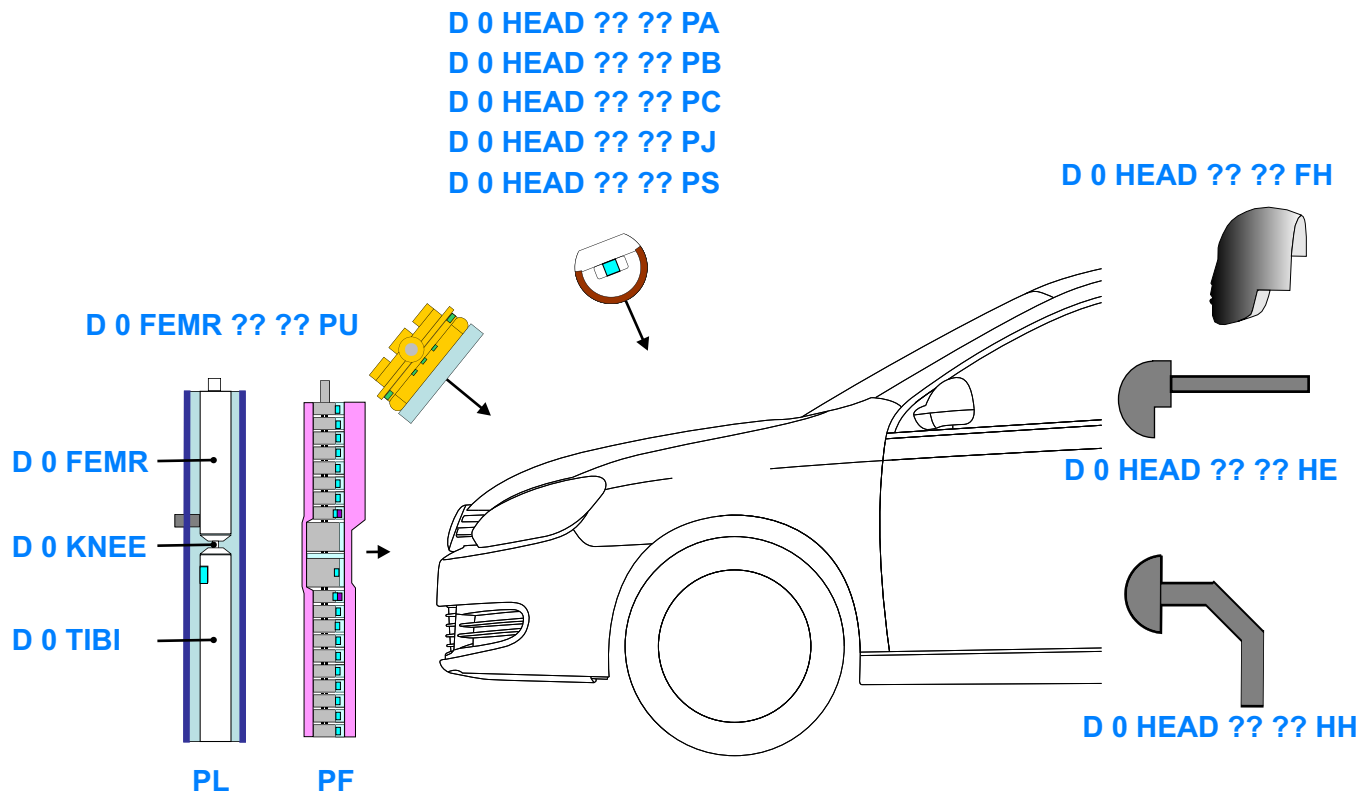
? ? SEBE ???? AF Seat Belt Airbag
 ? ? SEBE ???? GF Seat Belt Generator

Side Airbags

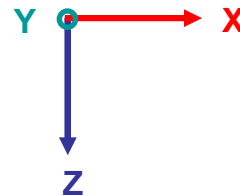
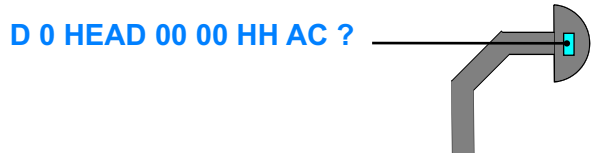
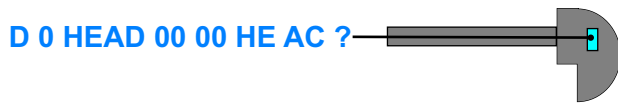
? ? SEPN ???? AS Seat Pan Airbag
 ? ? SEPN ???? GS Seat Pan Generator

Rear Airbags

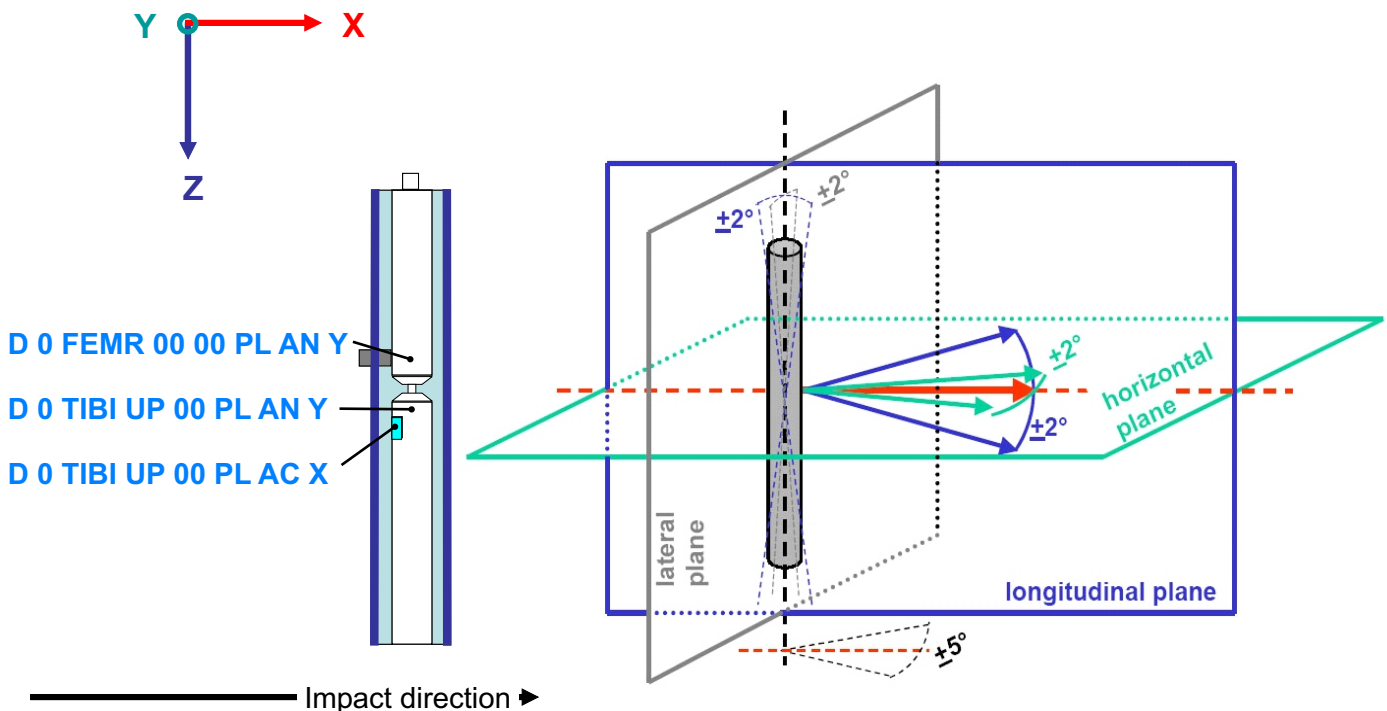
? ? HERE ???? AR Head Restraint Airbag
 ? ? HERE ???? GR Head Restraint Gen.



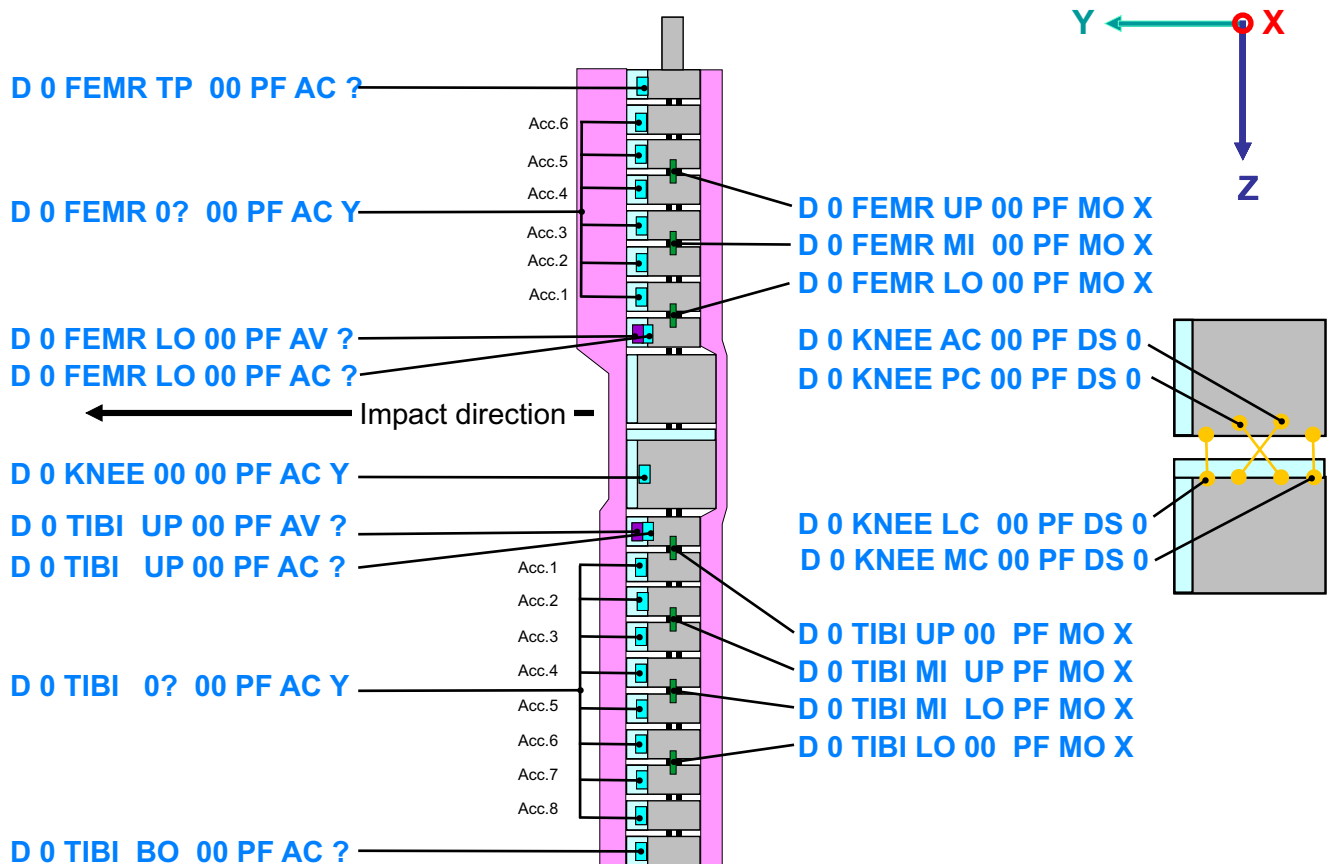
D 0 HEAD ?? ?? FH	Free Motion Headform
D 0 HEAD ?? ?? HE	Headform (e.g. Ejection Mitigation)
D 0 HEAD ?? ?? HH	Hemisphere Headform (e.g. FMVSS201, FMVSS202a, ECE-R17, ECE-R21, GTR7)
D 0 HEAD ?? ?? PA	Adult Headform
D 0 HEAD ?? ?? PB	ACEA Headform
D 0 HEAD ?? ?? PC	Child Headform
D 0 HEAD ?? ?? PJ	JARI 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)



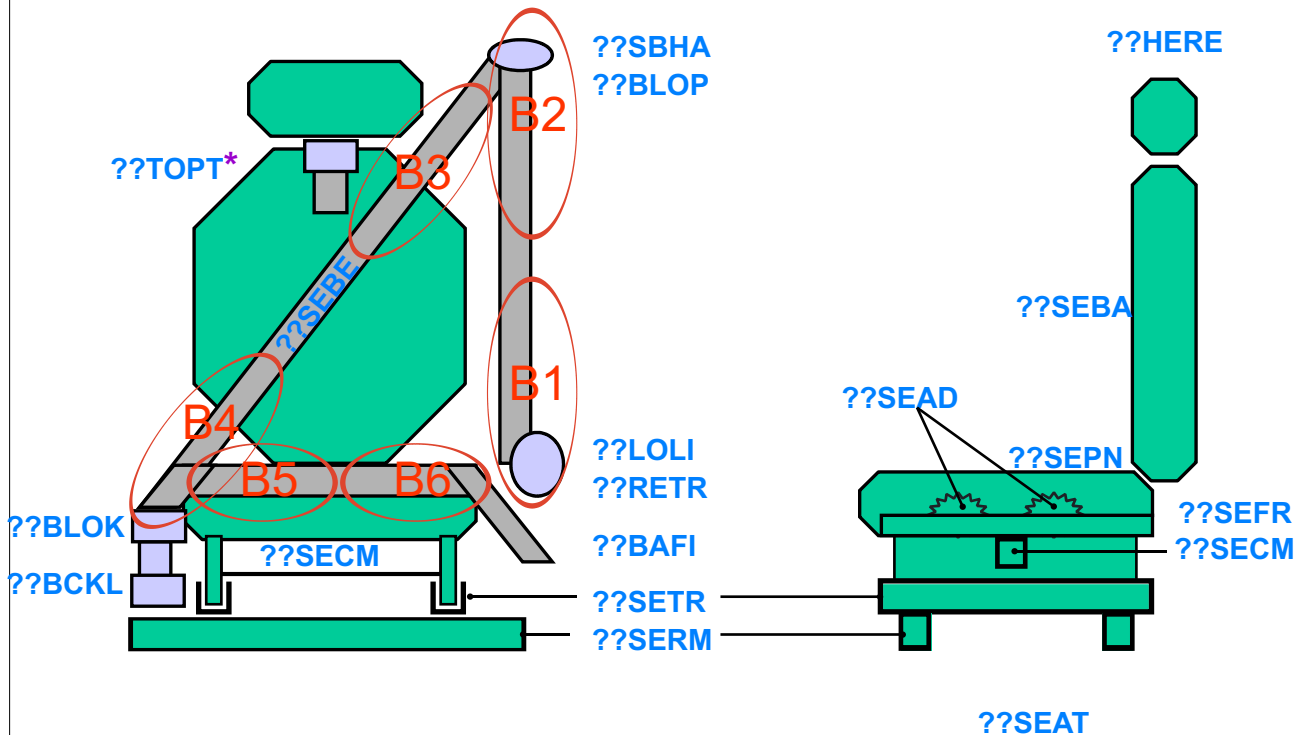
D 0 HEAD 00 00 FH AC X ?	Free Motion Headform Acceleration X	transducer
D 0 HEAD 00 00 FH AC Y ?	Free Motion Headform Acceleration Y	transducer
D 0 HEAD 00 00 FH AC Z ?	Free Motion Headform Acceleration Z	transducer
D 0 HEAD 00 00 H? AC X ?	(Hemisphere) Headform Acceleration X	transducer
D 0 HEAD 00 00 H? AC Y ?	(Hemisphere) Headform Acceleration Y	transducer
D 0 HEAD 00 00 H? AC Z ?	(Hemisphere) Headform Acceleration Z	transducer
D 0 HEAD 00 00 P? AC X ?	Headimpactor Acceleration X	transducer
D 0 HEAD 00 00 P? AC Y ?	Headimpactor Acceleration Y	transducer
D 0 HEAD 00 00 P? AC Z ?	Headimpactor 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



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
D 0 FEMR 00 00 PL VE X ?	Impact Velocity - Direct Measurement	transducer
D 0 FEMR 00 00 PL VD X ?	Impact Velocity - Differ. from Displ.	calculation
D 0 FEMR 00 00 PL VA X ?	Impact Velocity - Integr. from Accel.	calculation



D0FEMRUP00PFMOX	Femur Upper Moment X	D0FEMRLO00PFACX	Femur Lower Acc X
D0FEMRMI00PFMOX	Femur Middle Moment X	D0FEMRLO00PFACY	Femur Lower Acc Y
D0FEMRLO00PFMOX	Femur Lower Moment X	D0FEMRLO00PFACZ	Femur Lower Acc Z
		D0FEMRLO00PFAVX	Femur Lower Ang Vel X
D0KNEELC00PFDS0	Knee LCL Elongation	D0FEMRLO00PFAVY	Femur Lower Ang Vel Y
D0KNEEAC00PFDS0	Knee ACL Elongation	D0FEMRLO00PFAVZ	Femur Lower Ang Vel Z
D0KNEEPC00PFDS0	Knee PCL Elongation		
D0KNEEMC00PFDS0	Knee MCL Elongation	D0TIBIUP00PFACX	Tibia Upper Acc X
		D0TIBIUP00PFACY	Tibia Upper Acc Y
D0KNEE0000PFACY	Knee Acc Y	D0TIBIUP00PFACZ	Tibia Upper Acc Z
		D0TIBIUP00PFAVX	Tibia Upper Ang Vel X
D0TIBIUP00PFMOX	Tibia Upper Moment X	D0TIBIUP00PFAVY	Tibia Upper Ang Vel Y
D0TIBIMIUPPFMOX	Tibia Mi Up Moment X	D0TIBIUP00PFAVZ	Tibia Upper Ang Vel Z
D0TIBIMILOPFMOX	Tibia Mi Lo Moment X		
D0TIBILO00PFMOX	Tibia Lower Moment X	D0TIBI0100PFACY	Tibia Seg 1 Acc Y
		D0TIBI0200PFACY	Tibia Seg 2 Acc Y
D0FEMRTP00PFACX	Femur Top Acc X	D0TIBI0300PFACY	Tibia Seg 3 Acc Y
D0FEMRTP00PFACY	Femur Top Acc Y	D0TIBI0400PFACY	Tibia Seg 4 Acc Y
D0FEMRTP00PFACZ	Femur Top Acc Z	D0TIBI0500PFACY	Tibia Seg 5 Acc Y
		D0TIBI0600PFACY	Tibia Seg 6 Acc Y
D0FEMR0600PFACY	Femur Seg 6 Acc Y	D0TIBI0700PFACY	Tibia Seg 7 Acc Y
D0FEMR0500PFACY	Femur Seg 5 Acc Y	D0TIBI0800PFACY	Tibia Seg 8 Acc Y
D0FEMR0400PFACY	Femur Seg 4 Acc Y		
D0FEMR0300PFACY	Femur Seg 3 Acc Y	D0TIBIBO00PFACX	Tibia Bottom Acc X
D0FEMR0200PFACY	Femur Seg 2 Acc Y	D0TIBIBO00PFACY	Tibia Bottom Acc Y
D0FEMR0100PFACY	Femur Seg 1 Acc Y	D0TIBIBO00PFACZ	Tibia Bottom 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 D. Belt
 ? ? PRET ???? B6 Pretensioner at Lap Belt outside

? ? LOLI Load Limiter
 ? ? RETR Retractor

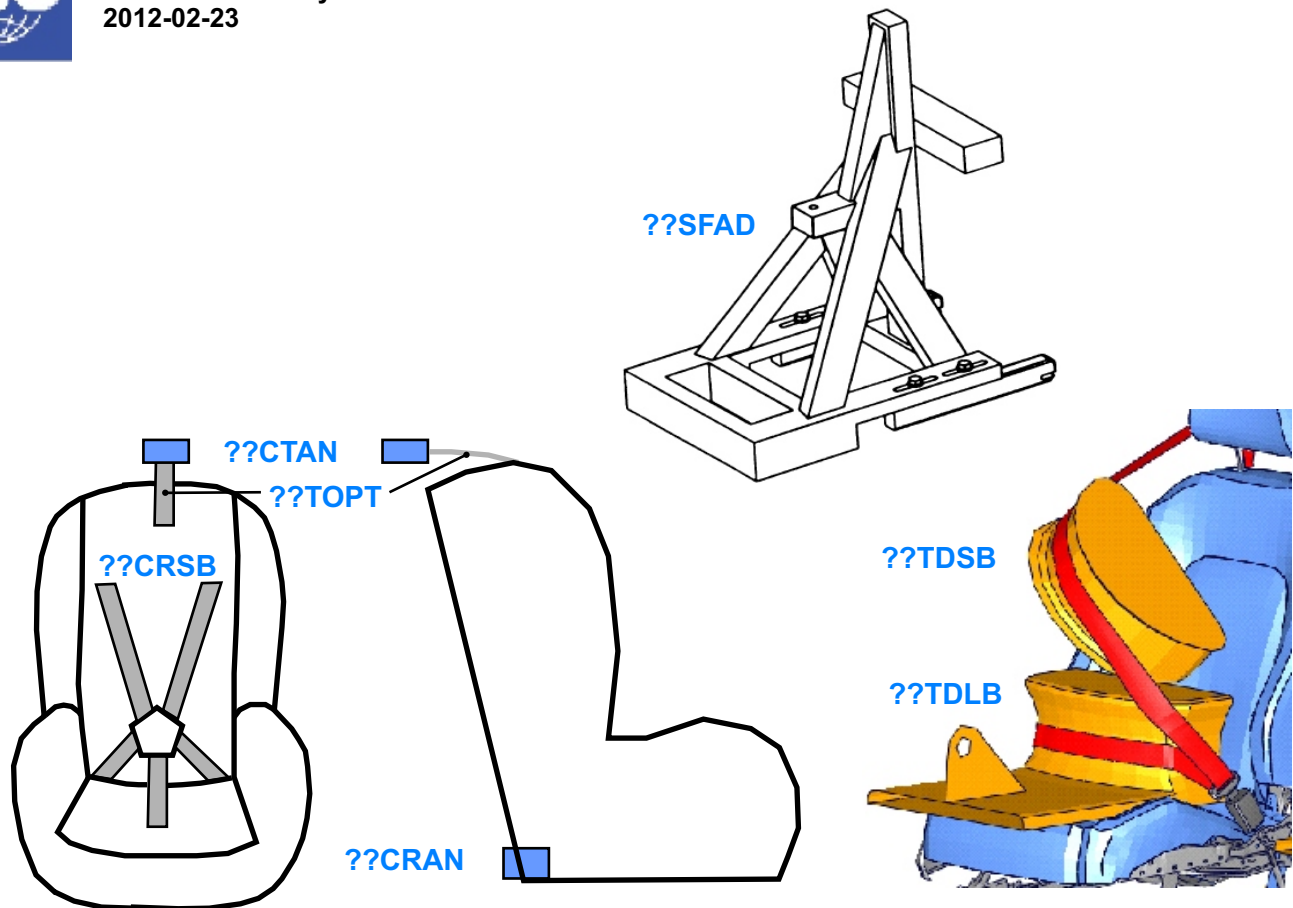
? ? SBHA Seat Belt Height Adjuster
 ? ? BLOP Belt Loop

? ? BLOK Belt Lock
 ? ? BCKL Buckle

? ? BAFI Belt Anchor Fitting

*Only at the rear seats
 ? ? TOPT Top Tether

? ? SEAT Seat
 ? ? SEBA Seat Back
 ? ? 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

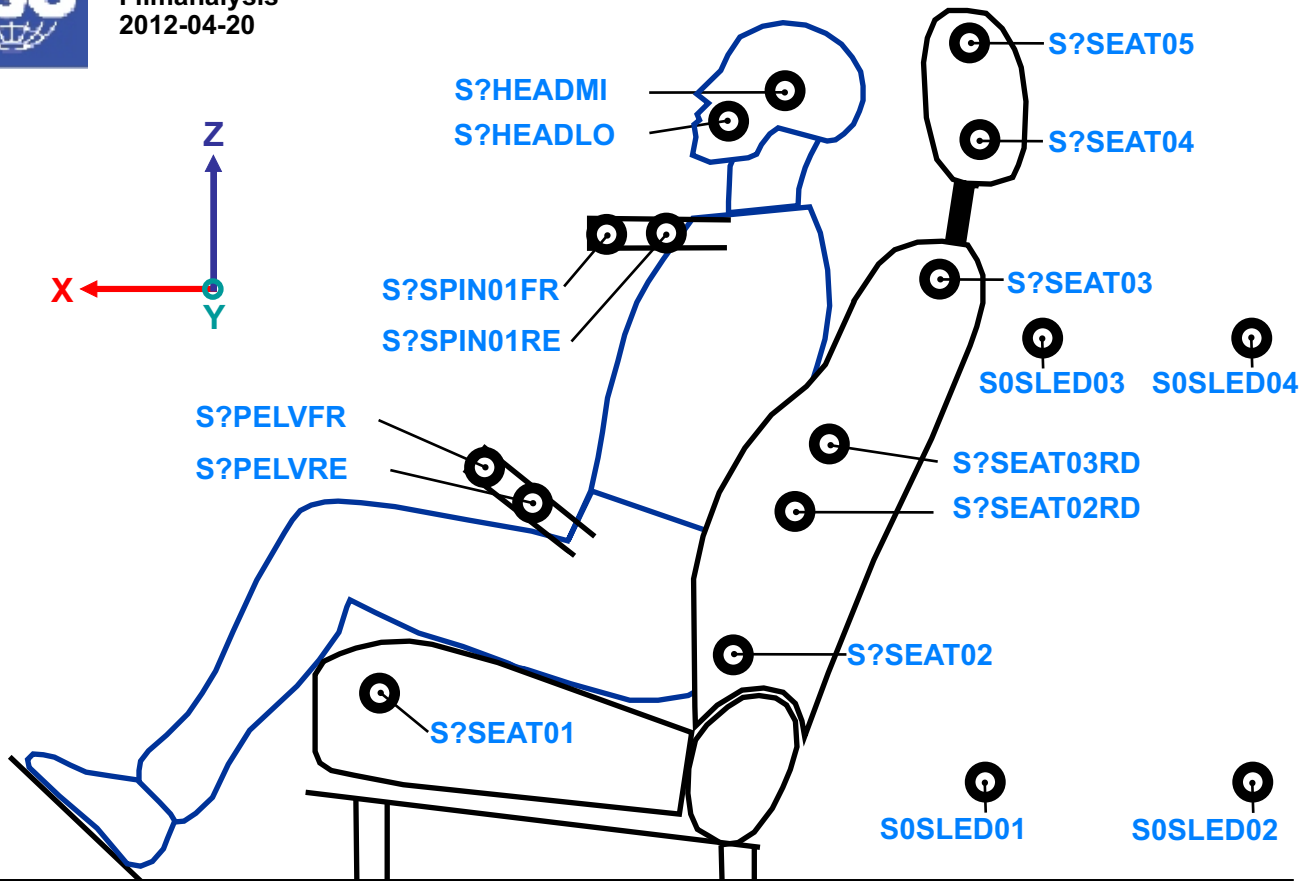
? ? CTAN Child Tether Anchorage

? ? CRAN Child Restraint Anchor

? ? CRSB Child Restraint Seat Belt

? ? TOPT Top Tether

? ? SFAD Static Force Application Device



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

Rebound velocity of the dummy head relative to the sled:

S ? HEAD 00 DI BR VE X V

The filmanalysis coordinate system differs from the SAE J211 convention!